

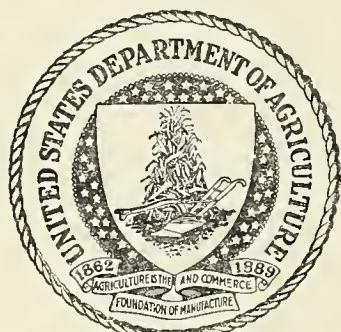
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# ESTIMATES OF APPROPRIATIONS

—FOR THE—

## DEPARTMENT OF AGRICULTURE

REQUIRED FOR THE SERVICE OF THE  
FISCAL YEAR ENDING JUNE 30

1920

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PREPARED FOR THE USE OF THE COMMITTEE ON AGRICULTURE,  
HOUSE OF REPRESENTATIVES

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NOTE.—Matter or items appearing in the last appropriation act and proposed to be  
stricken from those estimates is inclosed in heavy brackets, thus [ ].  
New or substituted matter appearing in miscellaneous appropriations is printed in *italics*.

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# United States Department of Agriculture.

## COMPARISON OF ESTIMATES OF APPROPRIATIONS FOR 1920 WITH APPROPRIATIONS MADE FOR 1919.

Titles of appropriations.	Total of appropriations for 1919.	Total of estimates for 1920.	Apparent increase in estimates for 1920 over act for 1919.	Actual increase in estimates for 1920 over act for 1919.	Apparent decrease in estimates for 1920 below act for 1919.	Actual decrease in estimates for 1920 below act for 1919.
<b>OFFICE OF THE SECRETARY.</b>						
Statutory salaries, Secretary's Office.....	\$462,000.00	\$491,720.00	\$29,720.00	\$29,720.00	-----	-----
Statutory salaries, Office of Farm Management.....	83,430.00	86,930.00	3,500.00	-----	-----	-----
General expenses, Office of Farm Management.....	221,660.00	218,160.00	-----	-----	\$3,500.00	-----
A net increase of \$29,720.	767,090.00	796,810.00	33,220.00	29,720.00	3,500.00	-----
<b>WEATHER BUREAU.</b>						
Statutory salaries.....	328,950.00	343,610.00	14,660.00	-----	-----	-----
General expenses:						
Central office expenses.....	109,250.00	109,250.00	-----	-----	-----	-----
Printing office.....	12,800.00	12,800.00	-----	-----	-----	-----
Station salaries.....	672,500.00	695,960.00	23,460.00	24,420.00	-----	-----
Special observations and reports.....	130,040.00	129,540.00	-----	-----	500.00	\$500.00
Telegraphing and telephoning.....	295,750.00	295,750.00	-----	-----	-----	-----
Miscellaneous station expenses.....	213,900.00	208,900.00	-----	-----	5,000.00	5,000.00
Traveling expenses.....	26,000.00	26,000.00	-----	-----	-----	-----
Aerological stations.....	98,740.00	85,040.00	-----	-----	13,700.00	-----
Repairing and renewing seacoast telegraph and cable lines.....	25,000.00	-----	-----	-----	25,000.00	25,000.00
A net decrease of \$6,080.	1,912,930.00	1,906,850.00	38,120.00	24,420.00	44,200.00	30,500.00
<b>BUREAU OF ANIMAL INDUSTRY.</b>						
Statutory salaries.....	479,710.00	554,750.00	75,040.00	-----	-----	3,900.00
General expenses:						
Inspection and quarantine.....	503,662.00	495,282.00	-----	-----	8,380.00	-----
Tuberculosis of animals.....	500,000.00	493,520.00	-----	-----	6,480.00	-----
Eradicating cattle ticks.....	700,000.00	691,980.00	-----	-----	8,020.00	-----
Live-stock demonstrations.....	50,000.00	50,000.00	-----	-----	-----	-----
Dairy industry.....	364,390.00	350,370.00	-----	-----	14,020.00	-----
Animal husbandry.....	201,800.00	213,380.00	11,580.00	17,480.00	-----	-----
Military horse breeding.....	37,840.00	36,940.00	-----	-----	900.00	-----
Poultry feeding and breeding.....	61,040.00	58,640.00	-----	-----	2,400.00	-----
Equipping sheep station.....	8,000.00	8,000.00	-----	-----	-----	-----
Diseases of animals.....	75,160.00	75,160.00	-----	-----	-----	-----
Abortion of animals.....	49,400.00	49,400.00	-----	-----	-----	-----
Eradicating hog cholera.....	247,600.00	243,900.00	-----	-----	3,700.00	-----
Control of viruses, etc.....	167,240.00	163,560.00	-----	-----	3,680.00	-----
Hog-cholera research.....	32,060.00	30,620.00	-----	-----	1,440.00	-----
International quarantine.....	97,800.00	88,800.00	-----	-----	9,000.00	7,800.00
Administrative expenses.....	26,686.00	26,686.00	-----	-----	-----	-----
Meat inspection, Bureau of Animal Industry.....	477,200.00	449,480.00	-----	-----	27,720.00	4,900.00
A net increase of \$830.	4,079,588.00	4,080,468.00	86,620.00	17,480.00	85,740.00	16,600.00
<b>BUREAU OF PLANT INDUSTRY.</b>						
Statutory salaries.....	447,020.00	494,380.00	54,360.00	2,800.00	-----	-----
General expenses:						
Pathological laboratory.....	67,720.00	81,320.00	19,300.00	19,300.00	-----	-----
Fruit diseases.....	67,935.00	67,935.00	-----	-----	-----	-----
Pecan diseases.....	8,100.00	8,000.00	-----	-----	-----	-----
Citrus canker.....	23,100.00	196,320.00	-----	-----	53,680.00	50,000.00
Forest pathology.....	81,635.00	82,315.00	-----	-----	1,320.00	-----
Blister-rust eradication.....	23,448.00	220,728.00	-----	-----	9,720.00	-----



*Comparison of estimates of appropriations for 1920 with appropriations made for 1919—Continued.*

Titles of appropriations.	Total of appropriations for 1919.	Total of estimates for 1920.	Apparent increase in estimates for 1920 over act for 1919.	Actual increase in estimates for 1920 over act for 1919.	Apparent decrease in estimates for 1920 below act for 1919.	Actual decrease in estimates for 1920 below act for 1919.
<b>BUREAU OF PLANT INDUSTRY—continued.</b>						
General expenses—Continued.						
Cotton and truck diseases.....	\$87,800.00	\$87,800.00	.....	.....	.....	.....
Crop physiology.....	48,460.00	48,460.00	.....	.....	.....	.....
Bacteriology and nutrition.....	39,300.00	39,060.00	.....	.....	\$240.00	.....
Soil-fertility investigations.....	36,260.00	35,060.00	.....	.....	1,200.00	.....
Crop acclimatization.....	97,010.00	93,910.00	.....	.....	3,100.00	.....
Cotton seed interbreeding.....	7,500.00	7,500.00	.....	.....	.....	.....
New Zealand flax.....	3,000.00	3,000.00	.....	.....	.....	.....
Drug and other plants.....	58,820.00	58,820.00	.....	.....	.....	.....
Crop technology.....	24,940.00	24,940.00	.....	.....	.....	.....
Biophysical investigations.....	32,500.00	32,500.00	.....	.....	.....	.....
Seed-testing laboratories.....	36,680.00	36,680.00	.....	.....	.....	.....
Cereal investigations.....	126,505.00	117,505.00	.....	.....	9,000.00	.....
Corn improvement.....	40,000.00	40,000.00	.....	.....	.....	.....
Black and stripe rust.....	100,000.00	100,000.00	.....	.....	.....	.....
Barberry eradication.....	150,000.00	150,000.00	.....	.....	.....	.....
Corn root and stalk diseases.....	25,000.00	25,000.00	.....	.....	.....	.....
Tobacco investigations.....	32,000.00	32,000.00	.....	.....	.....	.....
Paper plants.....	16,760.00	16,760.00	.....	.....	.....	.....
Alkali and drought resistant crops.....	24,280.00	24,280.00	.....	.....	.....	.....
Sugar plants.....	41,615.00	71,615.00	\$30,000.00	\$30,000.00	.....	.....
Improving sugar-beet seed.....	10,000.00	10,000.00	.....	.....	.....	.....
Cane and sorghum sirup.....	12,500.00	12,500.00	.....	.....	.....	.....
Economic and systematic botany.....	23,100.00	22,200.00	.....	.....	900.00	.....
Dry-land agriculture.....	160,000.00	159,000.00	.....	.....	1,000.00	.....
Western irrigation agriculture.....	73,580.00	73,580.00	.....	.....	.....	.....
Pomology.....	76,280.00	74,200.00	.....	.....	2,080.00	.....
Pecan culture.....	9,000.00	9,000.00	.....	.....	.....	.....
Experimental gardens and grounds.....	11,690.00	11,690.00	.....	.....	.....	.....
Horticulture.....	60,540.00	88,340.00	27,800.00	30,000.00	.....	.....
Arlington farm.....	21,900.00	21,900.00	.....	.....	.....	.....
Foreign seed and plant introduction.....	91,440.00	82,700.00	.....	.....	8,740.00	.....
Forage crops.....	83,180.00	81,980.00	.....	.....	1,200.00	.....
New and rare seeds.....	60,000.00	57,800.00	.....	.....	2,200.00	.....
Investigations of use of commercial fertilizers.....	.....	125,000.00	125,000.00	125,000.00	.....	.....
Administrative and miscellaneous.....	31,020.00	29,040.00	.....	.....	1,980.00	.....
Purchase and distribution of valuable seeds.....	242,320.00	239,320.00	.....	.....	3,000.00	.....
Apparent increase, \$157,100; actual increase, \$74,100, as \$83,000 was transferred from emergency fund for Stimulating Agriculture.						
<b>FOREST SERVICE.</b>						
Statutory salaries.....	2,483,620.00	2,485,420.00	1,800.00	.....	.....	.....
General expenses:						
National forests.....	1,803,127.00	2,069,201.00	266,074.00	266,074.00	.....	.....
Agricultural land classification.....	70,100.00	49,700.00	107,000.00	.....	12,800.00	11,000.00
Survey, etc., of lands.....	150,000.00	150,000.00	.....	.....	.....	.....
Fighting forest fires.....	161,100.00	161,100.00	.....	.....	.....	.....
Maintenance and supplies.....	173,260.00	208,260.00	35,000.00	35,000.00	.....	.....
Forest products.....	35,000.00	35,000.00	.....	.....	.....	.....
National forest range investigations.....	145,640.00	145,640.00	.....	.....	.....	.....
National forest planting.....	78,728.00	103,728.00	25,000.00	25,000.00	.....	.....
Silvical investigations.....	100,000.00	80,000.00	.....	.....	20,000.00	20,000.00
Reconnaissance.....	31,280.00	31,280.00	.....	.....	.....	.....
Miscellaneous forest investigations.....	450,000.00	450,000.00	.....	.....	.....	.....
Improvement of the national forests.....	5,731,555.00	6,026,629.00	327,874.00	326,074.00	32,800.00	31,000.00
A net increase of \$295,074.						
<b>BUREAU OF CHEMISTRY.</b>						
Statutory salaries.....	393,910.00	411,670.00	17,760.00	.....	.....	1,100.00
General expenses:						
Agricultural investigations.....	42,400.00	42,400.00	.....	.....	.....	.....
Collaboration with other departments.....	14,000.00	14,000.00	.....	.....	.....	.....
American food products.....	4,280.00	4,280.00	.....	.....	.....	.....
Poultry and egg investigations.....	40,000.00	50,000.00	10,000.00	10,000.00	.....	.....
Fish investigations.....	14,000.00	20,000.00	6,000.00	6,000.00	.....	.....
Oyster and other shellfish investigations.....	5,000.00	5,000.00	.....	.....	.....	.....
Biological investigations.....	15,000.00	15,000.00	.....	.....	.....	.....
Citrus by-products investigations.....	13,000.00	13,000.00	.....	.....	.....	.....
Color investigations.....	70,720.00	100,000.00	29,280.00	29,280.00	.....	.....
Table sirup.....	7,000.00	12,000.00	5,000.00	5,000.00	.....	.....



*Comparison of estimates of appropriations for 1920 with appropriations made for 1919—Continued.*

Titles of appropriations.	Total of appropriations for 1919.	Total of estimates for 1920.	Apparent increase in estimates for 1920 over act for 1919.	Actual increase in estimates for 1920 over act for 1919.	Apparent decrease in estimates for 1920 below act for 1919.	Actual decrease in estimates for 1920 below act for 1919.
<b>BUREAU OF CHEMISTRY—continued.</b>						
General expenses—Continued.						
Enforcement of the food and drugs act.....	\$589,081.00	\$620,221.00	\$31,140.00	\$50,000.00	.....	.....
Naval stores investigations.....	10,000.00	10,000.00	.....	.....	.....	.....
Insecticide and fungicide investigations.....	25,000.00	25,000.00	.....	.....	.....	.....
Drying vegetables, fruits, etc.....	.....	250,000.00	250,000.00	.....	.....	.....
Experiments in chemical research.....	.....	10,000.00	10,000.00	10,000.00	.....	.....
Utilization of wool-scouring waste.....	.....	9,000.00	9,000.00	9,000.00	.....	.....
Apparent increase \$368,180; actual increase \$104,180, as item for drying vegetables, fruits, etc., \$250,000, was transferred from the "Miscellaneous" section, and \$14,000 from emergency fund for Stimulating Agriculture.	1,243,391.00	1,611,571.00	368,180.00	119,280.00	.....	\$1,100.00
<b>BUREAU OF SOILS.</b>						
Statutory salaries.....	74,160.00	74,160.00	.....	.....	.....	.....
General expenses:						
Chemical investigations.....	25,610.00	25,610.00	.....	.....	.....	.....
Physical investigations.....	12,225.00	12,225.00	.....	.....	.....	.....
Investigations of fertilizer resources.....	31,340.00	50,000.00	18,660.00	18,660.00	.....	.....
Soil survey investigations.....	198,200.00	} 216,300.00	.....	.....	.....	.....
Classification of agricultural lands.....	18,100.00		.....	.....	.....	.....
Potash investigations.....	127,600.00	127,600.00	.....	.....	.....	.....
Administrative expenses.....	4,000.00	4,000.00	.....	.....	.....	.....
A net increase of \$18,660.	491,235.00	509,895.00	18,660.00	18,660.00	.....	.....
<b>BUREAU OF ENTOMOLOGY.</b>						
Statutory salaries.....	115,330.00	128,610.00	13,280.00	.....	.....	.....
General expenses:						
Deciduous fruit insects.....	83,780.00	86,180.00	2,400.00	5,000.00	.....	.....
Pecan insect investigations.....	9,600.00	9,600.00	.....	.....	.....	.....
Cereal and forage insects.....	122,060.00	147,060.00	25,000.00	25,000.00	.....	.....
Southern field crop insects.....	89,400.00	85,400.00	.....	.....	\$4,000.00	.....
Forest insects.....	49,870.00	48,790.00	.....	.....	1,080.00	.....
Truck crop and stored product insects.....	67,760.00	84,960.00	17,200.00	.....	.....	.....
Bee culture.....	35,000.00	35,000.00	.....	.....	.....	.....
Tropical and subtropical fruit insects.....	16,500.00	16,500.00	.....	.....	.....	.....
Mediterranean fruit fly.....	32,000.00	32,000.00	.....	.....	.....	.....
Miscellaneous insects.....	52,330.00	52,330.00	.....	.....	.....	.....
Administrative and miscellaneous.....	9,000.00	5,480.00	.....	.....	3,520.00	720.00
Preventing spread of moths, Bureau of Entomology.....	304,050.00	304,050.00	.....	.....	.....	.....
Apparent increase \$49,280; actual increase \$29,280, as item for Eradication of Sweet-Potato Weevil, \$20,000, was transferred from "Miscellaneous" section.	986,680.00	1,035,960.00	57,880.00	30,000.00	8,600.00	720.00
<b>BUREAU OF BIOLOGICAL SURVEY.</b>						
Statutory salaries.....	48,170.00	55,470.00	7,300.00	.....	.....	.....
General expenses:						
Game preservation.....	22,000.00	.....	.....	.....	22,000.00	.....
Maintenance of mammal and bird reservations.....	32,500.00	31,300.00	.....	.....	1,200.00	.....
Game for national reservations.....	2,500.00	2,500.00	.....	.....	.....	.....
Food habits of birds and mammals.....	129,820.00	124,440.00	.....	.....	5,380.00	480.00
Exterminating ground squirrels on national forests and public domain.....	15,000.00	15,000.00	.....	.....	.....	.....
Destroying noxious animals on national forests and public domain.....	125,000.00	125,000.00	.....	.....	.....	.....
Suppression of rabies in predatory wild animals.....	125,000.00	125,000.00	.....	.....	.....	.....
Biological investigations.....	25,600.00	24,400.00	.....	.....	1,200.00	.....
Migration of migratory birds.....	50,000.00	197,000.00	147,000.00	125,000.00	.....	.....
Administrative expenses.....	10,760.00	10,760.00	.....	.....	.....	.....
A net increase of \$124,520.	586,350.00	710,870.00	154,300.00	125,000.00	29,780.00	480.00
<b>DIVISION OF ACCOUNTS AND DISBURSEMENTS.</b>						
Statutory salaries.....	44,920.00	44,920.00	.....	.....	.....	.....
No change.						



*Comparison of estimates of appropriations for 1920 with appropriations made for 1919—Continued.*

Titles of appropriations.	Total of appropriations for 1919.	Total of estimates for 1920.	Apparent increase in estimates for 1920 over act for 1919.	Actual increase in estimates for 1920 over act for 1919.	Apparent decrease in estimates for 1920 below act for 1919.	Actual decrease in estimates for 1920 below act for 1919.
<b>DIVISION OF PUBLICATIONS.</b>						
Statutory salaries.....	\$178,920.00	\$179,120.00	\$200.00	\$200.00	.....	.....
General expenses:						
Labor-saving material and machinery.....	3,500.00	5,000.00	1,500.00	1,500.00	.....	.....
Stationery and materials.....	7,500.00	7,500.00	.....	.....	.....	.....
Furniture and fixtures.....	1,320.00	1,320.00	.....	.....	.....	.....
Photographic equipment.....	17,000.00	22,000.00	5,000.00	5,000.00	.....	.....
Communication and transportation service.....	500.00	750.00	250.00	250.00	.....	.....
Wagons, horses, etc.....	500.00	1,000.00	500.00	500.00	.....	.....
Miscellaneous expenses.....	3,000.00	4,000.00	1,000.00	1,000.00	.....	.....
Emergency employments.....	2,500.00	2,500.00	.....	.....	.....	.....
A net increase of \$8,450.	214,740.00	223,190.00	8,450.00	8,450.00	.....	.....
<b>BUREAU OF CROP ESTIMATES.</b>						
Statutory salaries.....	130,440.00	130,080.00	.....	.....	\$360.00	\$360.00
General expenses:						
Administrative expenses.....	24,230.00	25,980.00	1,750.00	1,750.00	.....	.....
Field investigations.....	191,562.00	233,841.00	42,279.00	42,279.00	.....	.....
A net increase of \$43,669.	346,232.00	389,901.00	44,029.00	44,029.00	360.00	360.00
<b>LIBRARY.</b>						
Statutory salaries.....	32,160.00	32,160.00	.....	.....	.....	.....
General expenses.....	18,000.00	18,000.00	.....	.....	.....	.....
No change.	50,160.00	50,160.00	.....	.....	.....	.....
Miscellaneous expenses.....	142,500.00	142,500.00	.....	.....	.....	.....
Rent in the District of Columbia.....	158,689.00	158,689.00	.....	.....	.....	.....
<b>STATES RELATIONS SERVICE.</b>						
Statutory salaries.....	180,980.00	203,840.00	22,860.00	.....	.....	.....
General expenses:						
Agricultural experiment stations.....	1,440,000.00	1,440,000.00	.....	.....	.....	.....
Colleges and stations.....	68,500.00	74,600.00	6,100.00	10,000.00	.....	.....
Farmers' cooperative demonstrations—North and West.....	554,800.00	551,280.00	.....	.....	3,520.00	.....
Farmers' cooperative demonstrations—South.....	650,140.00	645,040.00	.....	.....	5,100.00	.....
Farmers' institutes and agricultural schools.....	20,600.00	20,600.00	.....	.....	.....	.....
Agricultural experiment station—Alaska.....	65,000.00	75,000.00	10,000.00	10,000.00	.....	.....
Agricultural experiment station—Hawaii.....	45,000.00	50,000.00	5,000.00	5,000.00	.....	.....
Agricultural experiment station—Porto Rico.....	45,000.00	50,000.00	5,000.00	5,000.00	.....	.....
Agricultural experiment station—Island of Guam.....	20,000.00	25,000.00	5,000.00	5,000.00	.....	.....
Agricultural experiment station—Virgin Islands.....	15,000.00	15,000.00	.....	.....	.....	.....
Home economics.....	30,120.00	76,280.00	46,160.00	50,000.00	.....	.....
General administrative expenses.....	15,680.00	19,180.00	3,500.00	10,000.00	.....	.....
A net increase of \$95,000.	3,150,820.00	3,245,820.00	103,620.00	95,000.00	8,620.00	.....
<b>BUREAU OF PUBLIC ROADS.</b>						
Statutory salaries.....	104,020.00	112,140.00	8,120.00	.....	.....	720.00
General expenses:						
Road management.....	40,040.00	38,240.00	.....	.....	1,800.00	.....
Investigating road building and maintenance.....	141,060.00	138,220.00	.....	.....	2,840.00	.....
Road material.....	51,220.00	47,020.00	.....	.....	4,200.00	.....
Field experiments.....	60,000.00	60,000.00	.....	.....	.....	.....
Farm irrigation.....	82,440.00	82,440.00	.....	.....	.....	.....
Farm drainage.....	73,760.00	73,760.00	.....	.....	.....	.....
Rural engineering.....	25,000.00	75,000.00	50,000.00	50,000.00	.....	.....
Administrative expenses.....	16,000.00	16,000.00	.....	.....	.....	.....
A net increase of \$49,280.	593,540.00	642,820.00	58,120.00	50,000.00	8,840.00	720.00



*Comparison of estimates of appropriations for 1920 with appropriations made for 1919—Continued.*

Titles of appropriations.	Total of appropriations for 1919.	Total of estimates for 1920.	Apparent increase in estimates for 1920 over act for 1919.	Actual increase in estimates for 1920 over act for 1919.	Apparent decrease in estimates for 1920 below act for 1919.	Actual decrease in estimates for 1920 below act for 1919.
<b>BUREAU OF MARKETS.</b>						
Statutory salaries.....	\$387,850.00	\$739,290.00	\$351,440.00	\$235,880.00	.....	.....
General expenses:						
Marketing and distributing farm products.....	292,240.00	317,520.00	25,280.00	38,980.00	.....	.....
Collecting and distributing market information.....	196,660.00	304,660.00	108,000.00	135,060.00	.....	.....
Market reports on live stock and meats.....	57,920.00	152,720.00	94,800.00	103,840.00	.....	.....
Market reports on dairy and poultry products.....		80,600.00	80,600.00	80,600.00	.....	.....
Market reports on hay, grain, and feed.....		41,560.00	41,560.00	41,560.00	.....	.....
Market reports on seed.....		34,960.00	34,960.00	34,960.00	.....	.....
City market service.....		42,880.00	42,880.00	42,880.00	.....	.....
Food supply investigations.....	48,800.00	48,800.00	.....	.....	.....	.....
Market inspection of perishable foods.....	113,000.00	201,960.00	88,960.00	98,700.00	.....	.....
Cotton standards investigations.....	18,960.00	18,960.00	.....	.....	.....	.....
Cotton testing.....	26,960.00	26,960.00	.....	.....	.....	.....
Rural cooperation.....	28,280.00	25,780.00	.....	.....	\$2,500.00	\$720.00
State cooperation in marketing.....	61,500.00	94,960.00	33,460.00	34,420.00	.....	.....
Grain standardization.....	92,750.00	86,050.00	.....	.....	6,700.00	.....
Enforcement of the standard basket act.....	5,000.00	3,800.00	.....	.....	1,200.00	.....
Milling and baking investigations.....	50,000.00	85,000.00	35,000.00	35,000.00	.....	.....
Administrative expenses.....	19,635.00	24,635.00	5,000.00	8,000.00	.....	.....
Enforcement of the United States cotton-futures act.....	113,580.00	131,780.00	18,200.00	25,000.00	.....	.....
Enforcement of the United States grain standards act.....	456,580.00	598,600.00	142,020.00	174,160.00	.....	.....
Administration of the United States warehouse act.....	53,540.00	69,980.00	16,440.00	19,880.00	.....	.....
Apparent increase \$1,108,200; actual increase \$355,240, as \$752,960 was transferred from emergency fund for Stimulating Agriculture.	2,023,255.00	3,131,455.00	1,118,600.00	1,108,920.00	10,400.00	720.00
<b>INSECTICIDE AND FUNGICIDE BOARD.</b>						
Statutory salaries.....	26,750.00	27,950.00	1,200.00	.....	.....	.....
General expenses.....	94,490.00	94,790.00	300.00	1,500.00	.....	.....
A net increase of \$1,500.....	121,240.00	122,740.00	1,500.00	1,500.00	.....	.....
<b>FEDERAL HORTICULTURAL BOARD.</b>						
Statutory salaries.....	26,500.00	31,300.00	4,800.00	.....	.....	.....
General expenses.....	48,300.00	47,700.00	.....	.....	600.00	.....
Apparent increase \$4,200. No actual increase as this amount was transferred from Pink bollworm item in "Miscellaneous" section.	74,800.00	79,000.00	4,800.00	.....	600.00	.....
<b>MISCELLANEOUS.</b>						
Demonstrations on reclamation projects.....	48,600.00	48,600.00	.....	.....	.....	.....
Cooperative fire protection of forested watersheds of navigable streams.....	100,000.00	100,000.00	.....	.....	.....	.....
Experiments and demonstrations in live-stock production in the cane-sugar and cotton districts of the United States.....	60,000.00	60,000.00	.....	.....	.....	.....
Experiments in dairying and live-stock production in semiarid and irrigated districts of the western United States.....	40,000.00	40,000.00	.....	.....	.....	.....
Eradication of foot-and-mouth and other contagious diseases of animals.....	1,000,000.00	1,000,000.00	.....	.....	.....	.....
Eradication of pink bollworm.....	500,000.00	595,800.00	95,800.00	100,000.00	.....	.....
Drying vegetables, fruits, etc.....	<sup>1</sup> 250,000.00	.....	.....	.....	250,000.00	.....
Eradication of sweet-potato weevil.....	<sup>2</sup> 20,000.00	.....	.....	.....	20,000.00	.....
Total agricultural bill.....	27,875,353.00	<sup>3</sup> 30,048,786.00	2,776,233.00	2,305,633.00	602,800.00	132,200.00
A net increase of \$2,173,433. <sup>4</sup>						
Permanent annual appropriations.....	22,735,000.00	28,235,000.00	5,500,000.00	5,500,000.00	.....	.....
Procuring and disposing of Nitrate of Soda (Food and Fuel).....	10,000,000.00	10,000,000.00	.....	.....	.....	.....
Protection of lands involved in California and Oregon railroad forfeiture suit (Sundry Civil).....	25,000.00	.....	.....	.....	25,000.00	25,000.00
Items allotted from the President's appropriation for National Security and Defense.....	1,704,250.00	.....	.....	.....	1,704,250.00	1,704,250.00
Printing and binding (Sundry Civil).....	600,000.00	700,000.00	100,000.00	100,000.00	.....	.....
Grand total of all appropriations for the Department of Agriculture.....	562,939,603.00	68,983,786.00	8,376,233.00	7,905,633.00	2,332,050.00	1,861,450.00

<sup>1</sup> Transferred to Bureau of Chemistry.<sup>2</sup> Transferred to Bureau of Entomology.<sup>3</sup> Does not include supplemental estimates for statutory salaries of \$259,220. Including this item the total of the estimates for 1920 is \$30,308,006.<sup>4</sup> Apparent increase \$2,173,433, but as \$849,960 was transferred from the emergency fund for stimulating agriculture, the actual increase is \$1,323,473. Adding to this the supplemental estimate of \$259,220, the actual increase is \$1,582,693.<sup>5</sup> Does not include \$11,031,863 appropriated in act of Nov. 21 (Public, No. 243), for stimulating agriculture.



ESTIMATES OF APPROPRIATIONS REQUIRED FOR THE SERVICE OF THE FISCAL YEAR ENDING JUNE 30  
1920.

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<b>DEPARTMENT OF AGRICULTURE.</b>		
NOTE.—In the following estimates for the Department of Agriculture new matter appearing in miscellaneous appropriations has been indicated by means of italics, and all matter to be dropped has been inclosed in heavy brackets, thus [ ].		
<b>OFFICE OF THE SECRETARY.</b>		
<i>Salaries, Office of the Secretary of Agriculture—</i>		
(1) Secretary of Agriculture ( <i>R. S., p. 87, secs. 520-523; acts Feb. 9, 1889, vol. 25, p. 659, sec. 3; Mar. 2, 1889, vol. 25, p. 835, sec. 3; Feb. 26, 1907, vol. 34, p. 1256, sec. 4; Oct. 1, 1918, vol. 40, pp. 973-974, sec. 1</i> )-----	\$12,000.00	
(2) Assistant Secretary of Agriculture ( <i>same acts</i> )-----	5,000.00	
(3) Solicitor ( <i>same acts</i> )-----	5,000.00	
(4) Chief clerk, \$3,000, and \$500 additional as custodian of buildings ( <i>same acts</i> )-----	3,500.00	
(5) Private secretary to the Secretary of Agriculture ( <i>same acts</i> )-----	2,500.00	
(6) Executive clerk ( <i>same acts</i> )-----	2,250.00	
(7) Executive clerk ( <i>same acts</i> )-----	2,100.00	
(8) Stenographer and executive clerk to the Secretary of Agriculture ( <i>same acts</i> )-----	2,250.00	
(9) Private secretary to the Assistant Secretary of Agriculture ( <i>same acts</i> )-----	2,250.00	
(10) One appointment clerk ( <i>same acts</i> )-----	2,000.00	
(11) One assistant in charge of information ( <i>same acts</i> )-----	3,000.00	
(12) One officer in charge of supplies ( <i>same acts</i> )-----	2,000.00	
(13) One assistant ( <i>same acts</i> )-----	2,000.00	
(14) One inspector ( <i>same acts</i> )-----	2,750.00	
(15) One inspector ( <i>same acts</i> )-----	2,250.00	
(16) One law clerk ( <i>same acts</i> )-----	3,250.00	
(17) Two law clerks, at \$3,000 each ( <i>same acts</i> )-----	6,000.00	
(18) Two law clerks, at \$2,750 each ( <i>same acts</i> )-----	5,500.00	
(19) Four law clerks, at \$2,500 each ( <i>same acts</i> )-----	10,000.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920.—Continued*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(20) Eight law clerks, at \$2,250 each ( <i>R. S.</i> , p. 87, secs. 520-523; <i>acts Feb. 9, 1889, vol. 25, p. 659, sec. 3; Mar. 2, 1889, vol. 25, p. 835, sec. 3; Feb. 26, 1907, vol. 34, p. 1256, sec. 4; Oct. 1, 1918, vol. 40, pp. 973-974, sec. 1</i> ) -----	\$18,000.00	
(21) One law clerk ( <i>same acts</i> )-----	2,200.00	
(22) Five law clerks, at \$2,000 each ( <i>same acts</i> )-----	10,000.00	
(23) Three law clerks, at \$1,800 each ( <i>same acts</i> )-----	5,400.00	
(24) Four law clerks, at \$1,600 each ( <i>same acts</i> )-----	6,400.00	
(25) One assistant editor ( <i>same acts</i> )-----	2,000.00	
(26) Four assistant editors, at \$1,800 each ( <i>same acts</i> )-----	7,200.00	
(27) One assistant editor ( <i>same acts</i> )-----	1,600.00	
(28) One expert on exhibits ( <i>same acts</i> )-----	3,000.00	
(29) One assistant in exhibits ( <i>same acts</i> )-----	2,000.00	
(30) One telegraph and telephone operator ( <i>same acts</i> )-----	1,600.00	
(31) One assistant chief clerk and captain of the watch ( <i>same acts</i> )-----	1,800.00	
(32) Five clerks, class 4 ( <i>same acts</i> )-----	9,000.00	
(33) Fourteen clerks, class 3 (increase of 1 by transfer from statutory roll, Bureau of Chemistry) ( <i>same acts</i> )-----	22,400.00	
(34) Twenty-one clerks, class 2 (increase of 2 by transfer from lump funds, 1 from marketing and distributing farm products and 1 from grain standards act, Bureau of Markets, and decrease of 2 by transfer of 1 each to statutory rolls of Bureau of Chemistry and Division of Publications, making no change in the number of places) ( <i>same acts</i> )-----	29,400.00	
(35) Twenty-seven clerks, class 1 (increase of 1 by transfer from statutory roll, Division of Publications) ( <i>same acts</i> )-----	32,400.00	
(36) One auditor ( <i>same acts</i> )-----	2,000.00	
(37) One accountant and bookkeeper ( <i>same acts</i> )-----	2,000.00	
(38) One clerk ( <i>same acts</i> )-----	1,440.00	
(39) Two clerks, at \$1,100 each (by transfer from lump fund for meat inspection, Bureau of Animal Industry) ( <i>same acts</i> )-----	2,200.00	
(40) One clerk ( <i>same acts</i> )-----	1,020.00	
(41) Seven clerks, at \$1,000 each ( <i>same acts</i> )-----	7,000.00	
(42) Eighteen clerks, at \$900 each (increase of 5 by transfer, 1 from lump fund for meat inspection, and 2 from statutory roll, Bureau of Animal Industry, 1 from statutory roll, Bureau of Plant Industry, and 1 from statutory roll, Bureau of Chemistry) ( <i>same acts</i> )-----	16,200.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(43) Two clerks, at \$840 each ( <i>R. S., p. 87, secs. 520-523; acts Feb. 9, 1889, vol. 25, p. 659, sec. 3; Mar. 2, 1889, vol. 25, p. 835, sec. 3; Feb. 26, 1907, vol. 34, p. 1256, sec. 4; Oct. 1, 1918, vol. 40, pp. 973-974, sec. 1</i> )-----	\$1,680.00	
(44) Fourteen messengers or laborers, at \$840 each ( <i>same acts</i> )--	11,760.00	
(45) Twelve assistant messengers, laborers, or messenger boys, at \$720 each ( <i>same acts</i> )-----	8,640.00	
(46) One messenger or laborer ( <i>same acts</i> )-----	660.00	
(47) One mechanical superintendent ( <i>same acts</i> )-----	2,500.00	
(48) One mechanical assistant ( <i>same acts</i> )-----	1,800.00	
(49) One mechanical assistant (by transfer from lump fund for extra labor, Secretary's office) ( <i>same acts</i> )-----	1,400.00	
(50) One mechanical assistant (by transfer from statutory roll, Bureau of Markets) ( <i>same acts</i> )-----	1,380.00	
(51) One engineer ( <i>same acts</i> )-----	1,400.00	
(52) One electrical engineer and draftsman ( <i>same acts</i> )-----	1,200.00	
(53) Two assistant engineers, at \$1,200 each (increase of 1 by transfer from lump fund for meat inspection, Bureau of Animal Industry) ( <i>same acts</i> )-----	2,400.00	
(54) Two assistant engineers, at \$1,000 each ( <i>same acts</i> )-----	2,000.00	
(55) One fireman ( <i>same acts</i> )-----	840.00	
(56) Eight firemen, at \$720 each ( <i>same acts</i> )-----	5,760.00	
(57) One chief elevator conductor ( <i>same acts</i> )-----	840.00	
(58) Sixteen elevator conductors, at \$720 each ( <i>same acts</i> )-----	11,520.00	
(59) Three elevator conductors, at \$600 each ( <i>same acts</i> )-----	1,800.00	
(60) One superintendent of shops ( <i>same acts</i> )-----	1,400.00	
(61) One cabinet shop foreman ( <i>same acts</i> )-----	1,200.00	
(62) Five cabinetmakers or carpenters, at \$1,200 each ( <i>same acts</i> )-----	6,000.00	
(63) Three cabinetmakers or carpenters, at \$1,100 each ( <i>same acts</i> )-----	3,300.00	
(64) Nine cabinetmakers or carpenters, at \$1,020 each ( <i>same acts</i> )-----	9,180.00	
(65) Three cabinetmakers or carpenters, at \$900 each ( <i>same acts</i> )-----	2,700.00	
(66) One instrument maker (by transfer from statutory roll, Bureau of Animal Industry) ( <i>same acts</i> )-----	1,200.00	
(67) One electrician ( <i>same acts</i> )-----	1,100.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(68) Two electrical wiremen, at \$1,100 each (increase of 1 by transfer from lump fund for collecting and distributing market information, Bureau of Markets) ( <i>R. S.</i> , p. 87, secs. 520-523; <i>acts Feb. 9, 1889, vol. 25, p. 659, sec. 3; Mar. 2, 1889, vol. 25, p. 835, sec. 3; Feb. 26, 1907, vol. 34, p. 1256, sec. 4; Oct. 1, 1918, vol. 40, pp. 973-974, sec. 1</i> ) . . .	\$2,200.00	
(69) One electrician or wireman ( <i>same acts</i> ) . . . . .	1,000.00	
(70) One electrical wireman ( <i>same acts</i> ) . . . . .	900.00	
(71) One electrician's helper ( <i>same acts</i> ) . . . . .	840.00	
(72) Three electrician's helpers, at \$720 each ( <i>same acts</i> ) . . . . .	2,160.00	
(73) One painter ( <i>same acts</i> ) . . . . .	1,020.00	
(74) One painter ( <i>same acts</i> ) . . . . .	1,000.00	
(75) Five painters, at \$900 each ( <i>same acts</i> ) . . . . .	4,500.00	
(76) Five plumbers or steamfitters, at \$1,020 each ( <i>same acts</i> ) . . . . .	5,100.00	
(77) Two plumber's helpers, at \$840 each ( <i>same acts</i> ) . . . . .	1,680.00	
(78) Two plumber's helpers, at \$720 each ( <i>same acts</i> ) . . . . .	1,440.00	
(79) One blacksmith ( <i>same acts</i> ) . . . . .	900.00	
(80) One elevator machinist ( <i>same acts</i> ) . . . . .	900.00	
(81) One tinner or sheet-metal worker ( <i>same acts</i> ) . . . . .	1,100.00	
(82) One tinner's helper ( <i>same acts</i> ) . . . . .	720.00	
(83) One lieutenant of the watch ( <i>same acts</i> ) . . . . .	1,000.00	
(84) Two lieutenants of the watch, at \$960 each ( <i>same acts</i> ) . . . . .	1,920.00	
(85) Seventy-three watchmen, at \$720 each (increase of 4 by transfer from lump funds, 1 from general administrative expenses, Bureau of Entomology, and 1 each from marketing and distributing farm products, rural cooperation, and warehouse act, Bureau of Markets) ( <i>same acts</i> ) . . . . .	52,560.00	
(86) Four mechanics, at \$1,200 each ( <i>same acts</i> ) . . . . .	4,800.00	
(87) One mechanic ( <i>same acts</i> ) . . . . .	1,000.00	
(88) One skilled laborer ( <i>same acts</i> ) . . . . .	1,000.00	
(89) Two skilled laborers, at \$960 each ( <i>same acts</i> ) . . . . .	1,920.00	
(90) One skilled laborer (by transfer from statutory roll, Bureau of Animal Industry) ( <i>same acts</i> ) . . . . .	900.00	
(91) Two skilled laborers, at \$840 each ( <i>same acts</i> ) . . . . .	1,680.00	
(92) Two skilled laborers, at \$720 each (increase of 1 by transfer from statutory roll, Bureau of Public Roads) ( <i>same acts</i> ) . . . . .	1,440.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(93) One janitor ( <i>R. S., p. 87, secs. 520–523; acts Feb. 9, 1889, vol. 25, p. 659, sec. 3; Mar. 2, 1889, vol. 25, p. 835, sec. 3; Feb. 26, 1907, vol. 34, p. 1256, sec. 4; Oct. 1, 1918, vol. 40, pp. 973–974, sec. 1</i> ) -----	\$900.00	
(94) Twenty-two assistant messengers, messenger boys, or laborers, at \$600 each (increase of 1 by transfer of 1 messenger boy from lump fund for meat inspection, Bureau of Animal Industry) ( <i>same acts</i> ) -----	13,200.00	
(95) One carriage driver ( <i>same acts</i> ) -----	600.00	
(96) Twenty-four laborers or messenger boys, at \$480 each (increase of 1 by transfer of 1 laborer from lump fund for food habits of birds and mammals, Bureau of Biological Survey) ( <i>same acts</i> ) -----	11,520.00	
(97) One messenger or messenger boy ( <i>same acts</i> ) -----	360.00	
(98) One charwoman ( <i>same acts</i> ) -----	540.00	
(99) Three charwomen, at \$480 each ( <i>same acts</i> ) -----	1,440.00	
(100) One charwoman (by transfer from statutory roll, Bureau of Crop Estimates) ( <i>same acts</i> ) -----	360.00	
(101) Fifteen charwomen, at \$240 each ( <i>same acts</i> ) -----	3,600.00	
(102) For extra labor and emergency employments (increase of \$8,000 submitted) ( <i>same acts</i> ) -----	20,000.00	
NOTE.—There is an apparent increase in this item of \$8,000, but taking into consideration the transfer to the statutory roll of 1 mechanical assistant at \$1,400, the actual increase is \$9,400. This appropriation, which is intended to make provision for the temporary employment of clerks, laborers, watchmen, mechanics, etc., when necessary, has during the past two fiscal years been found inadequate for the purpose. The Secretary's office in all its branches needs from time to time additional clerical help; the watch force often must be increased temporarily when regular men are ill; and temporary laborers are frequently needed to replace regular laborers who are ill or on leave, in order that the cleaning of buildings, the handling of freight and furniture, and other necessary work of a similar nature may be promptly attended to. The inadequacy of this appropriation constantly makes it necessary to call upon the various bureaus to carry additional watchmen, temporary mechanics, and laborers for the service of the Secretary's office, though the original intent of the appropriation was to provide the Secretary's office with a fund to meet such demands. The increase requested is believed to be conservative, having in view the continued growth of the department and the higher wage scale of mechanics and laborers selected for temporary employment.	\$491,720.00	\$462,000.00
NOTE.—Apparent increase, \$29,720; actual increase, \$9,400, as follows:		
Additional for extra labor and emergency employments ....	\$8,000	
<i>Transfer from extra-labor roll of Secretary's office, which fund has not been correspondingly reduced.</i>		
1 mechanical assistant.....	1,400	
Actual increase.....	9,400	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>																																																																		
<i>Transfers from funds of other bureaus, which funds have been correspondingly reduced.</i>																																																																		
1 clerk, class 3, from statutory roll, Bureau of Chemistry. \$1,600																																																																		
2 clerks, class 2, from marketing and distributing farm products and grain standards act, Bureau of Markets....	2,800																																																																	
1 clerk, class 1, from statutory roll, Division of Publications	1,200																																																																	
2 clerks, at \$1,100 each, from meat inspection, Bureau of Animal Industry.....	2,200																																																																	
5 clerks, at \$900 each, 1 from meat inspection and 2 from statutory roll, Bureau of Animal Industry; 1 from statutory roll, Bureau of Plant Industry, and 1 from statutory roll, Bureau of Chemistry.....	4,500																																																																	
1 mechanical assistant, from statutory roll, Bureau of Markets.....	1,380																																																																	
1 assistant engineer, from meat inspection, Bureau of Animal Industry.....	1,200																																																																	
1 instrument maker, from statutory roll, Bureau of Animal Industry.....	1,200																																																																	
1 electrical wireman, from collecting and distributing market information, Bureau of Markets.....	1,100																																																																	
4 watchmen, at \$720 each, 1 from general administrative expenses, Bureau of Entomology, and 1 each from marketing and distributing farm products, rural cooperation, and administration of warehouse act, Bureau of Markets.....	2,880																																																																	
1 skilled laborer, from statutory roll, Bureau of Animal Industry.....	900																																																																	
1 skilled laborer, from statutory roll, Bureau of Public Roads.....	720																																																																	
1 messenger boy, from meat inspection, Bureau of Animal Industry.....	600																																																																	
1 laborer, from food habits of birds and mammals, Bureau of Biological Survey.....	480																																																																	
1 charwoman, from statutory roll, Bureau of Crop Estimates.	360																																																																	
	23,120																																																																	
<i>Transfers to rolls of other bureaus and the Secretary's roll correspondingly reduced.</i>																																																																		
2 clerks, class 2, 1 each to statutory rolls of Bureau of Chemistry and Division of Publications.....	2,800	\$20,320																																																																
Apparent increase.....	29,720																																																																	
<i>Extra labor and emergency employments.</i>																																																																		
<table border="1"> <thead> <tr> <th>Employees.</th> <th>Rate.</th> <th>Estimated, 1920.</th> <th>Expended, 1918.</th> </tr> </thead> <tbody> <tr> <td>Salaries:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Assistant in exhibits*.....per annum..</td> <td>\$2,000.00</td> <td>Number.</td> <td>Number.</td> </tr> <tr> <td>Mechanical assistants†.....do.....</td> <td>1,400.00</td> <td>.....</td> <td>1</td> </tr> <tr> <td>Cooperative agent.....per month..</td> <td>100.00</td> <td>.....</td> <td>1</td> </tr> <tr> <td>Clerks, firemen, watchmen, messenger boys, and char- women, \$840 to \$240.....per annum..</td> <td>67 (temp.)</td> <td>38 (temp.)</td> <td></td> </tr> <tr> <td>Relief watchmen (average service, 25 days each).....per diem..</td> <td>2.00</td> <td>100 (temp.)</td> <td>112 (temp.)</td> </tr> <tr> <td>Wages:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Painter.....do.....</td> <td>3.50</td> <td>.....</td> <td>1 (temp.)</td> </tr> <tr> <td>Miscellaneous temporary labor—</td> <td></td> <td></td> <td></td> </tr> <tr> <td>\$50 to \$20.....per month..</td> <td>30</td> <td>14</td> <td></td> </tr> <tr> <td>\$2 to \$0.75.....per diem..</td> <td>20</td> <td>9</td> <td></td> </tr> <tr> <td></td> <td>217</td> <td>177</td> <td></td> </tr> <tr> <td>Salaries.....</td> <td>\$17,540.00</td> <td>\$10,553.27</td> <td></td> </tr> <tr> <td>Wages.....</td> <td>2,460.00</td> <td>1,347.69</td> <td></td> </tr> <tr> <td>Total.....</td> <td>20,000.00</td> <td>11,900.96</td> <td></td> </tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:				Assistant in exhibits*.....per annum..	\$2,000.00	Number.	Number.	Mechanical assistants†.....do.....	1,400.00	.....	1	Cooperative agent.....per month..	100.00	.....	1	Clerks, firemen, watchmen, messenger boys, and char- women, \$840 to \$240.....per annum..	67 (temp.)	38 (temp.)		Relief watchmen (average service, 25 days each).....per diem..	2.00	100 (temp.)	112 (temp.)	Wages:				Painter.....do.....	3.50	.....	1 (temp.)	Miscellaneous temporary labor—				\$50 to \$20.....per month..	30	14		\$2 to \$0.75.....per diem..	20	9			217	177		Salaries.....	\$17,540.00	\$10,553.27		Wages.....	2,460.00	1,347.69		Total.....	20,000.00	11,900.96			
Employees.	Rate.	Estimated, 1920.	Expended, 1918.																																																															
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Assistant in exhibits*.....per annum..	\$2,000.00	Number.	Number.																																																															
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Cooperative agent.....per month..	100.00	.....	1																																																															
Clerks, firemen, watchmen, messenger boys, and char- women, \$840 to \$240.....per annum..	67 (temp.)	38 (temp.)																																																																
Relief watchmen (average service, 25 days each).....per diem..	2.00	100 (temp.)	112 (temp.)																																																															
Wages:																																																																		
Painter.....do.....	3.50	.....	1 (temp.)																																																															
Miscellaneous temporary labor—																																																																		
\$50 to \$20.....per month..	30	14																																																																
\$2 to \$0.75.....per diem..	20	9																																																																
	217	177																																																																
Salaries.....	\$17,540.00	\$10,553.27																																																																
Wages.....	2,460.00	1,347.69																																																																
Total.....	20,000.00	11,900.96																																																																

\*Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*Salaries, Office of the Secretary of Agriculture—Continued.***SUPPLEMENTAL ESTIMATE.**

NOTE.—In accordance with a general understanding among the Executive Departments, no increases or other changes were recommended in the statutory rolls of the Department of Agriculture in the estimates of appropriations for the fiscal year 1920, except transfers from lump-fund rolls in accordance with the provision of law requiring such transfers, and in all such cases the lump-fund rolls were correspondingly reduced. A number of promotions and other changes were, however, under consideration at that time and were subsequently submitted as a supplemental estimate to the Secretary of the Treasury under date of November 25, 1918. The supplemental estimate of each bureau will be found immediately after the statutory roll of that bureau in the committee Book of Estimates, and the reasons for each change are fully set forth.

In addition to the promotions based solely on meritorious service, a number of promotions and other changes affecting certain clerical and subclerical employees are recommended in order that the salaries of such positions may conform to a minimum scale, as follows:

Clerks.....	\$1,000
Clerks (minor).....	900
Repairmen.....	1,000
Skilled laborers.....	1,000
Gardeners.....	1,000
Messengers or laborers.....	900
Messenger boys.....	480
Laboratory helpers.....	900
Watchmen.....	900
Firemen.....	1,000
Elevator conductors.....	840
Telephone operators.....	840
Cabinetmakers or carpenters.....	1,200
Electricians.....	1,200
Painters.....	1,200
Plumbers.....	1,200
Blacksmiths.....	1,200
Mechanics.....	1,200

This action is necessary in order to enable the department to meet the ever increasing difficulty of securing and retaining competent clerks, mechanics, and subclerical employees. The large number of resignations in these grades has interfered seriously with the efficient conduct of the work of the department, and it is highly urgent and necessary that the present low salary scale be increased as recommended.

The changes in the statutory roll of the office of the Secretary are as follows:

*Promotions:*

(103) 1 inspector, \$2,750 to \$3,250 ..... \$500

(This employee is in charge of the office of inspection. He reviews all personnel matters, has general supervision of the fiscal operations of the department, advises as to financial procedure, and prepares important financial reports for submission by the Secretary to Congress. He has served 23 years in the department and received his last promotion on July 1, 1912.)

(104) 1 inspector, \$2,250 to \$2,500 ..... 250

(This employee is assigned to the office of inspection where he reviews personnel cases, makes independent investigations when necessary, and summarizes the evidence for the Secretary's consideration. The work upon which he is engaged is very important and requires a high order of ability as well as sound judgment. He has served 8 years and was last promoted May 1, 1914.)



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
<i>Promotions—Continued.</i>		
(105) 1 assistant chief clerk and captain of the watch, \$1,800 to \$2,250 . . . . .	\$450	
(This employee actively assists the chief clerk in the performance of his duties. In addition, he has charge of the labor and char force and is responsible for the handling of the large force of watchmen who guard the various buildings of the department. He performs his duties in a very satisfactory manner and relieves the chief clerk of a large amount of work. He has been in the department 12 years and received his last promotion August 16, 1916.)		
(106) 1 assistant in exhibits, \$2,000 to \$2,400 . . . . .	400	
(This employee has charge of the entire exhibits work of the department in the field. As assistant to the chairman of the Joint Committee on Government Exhibits, he has also assisted in the movement and display of the combined Government exhibits throughout the United States. He has a service record of over 11 years, and received his last promotion July 1, 1916.)		
(107) 1 clerk, class 4, to 1 executive clerk, \$2,000 . . . . .	200	
(This employee has been detailed to the Secretary's office for the past 5 years. He performs responsible duties in connection with the administrative work of that office.)		
(108) 1 skilled laborer, \$960 to \$1,080 . . . . .	120	
(This promotion is recommended in order to provide an adequate salary for the employee in charge of the department stables. This employee has been in the service of the department for a number of years and the small promotion recommended is fully merited.)		
(109) 1 janitor, \$900 to \$1,000 . . . . .	100	
(This increase is recommended in order to provide a promotion for the employee having immediate charge of the labor and char force of the department. He has been in the service for a number of years and the promotion recommended is fully warranted.)		
(110) 16 clerks, \$900 to \$1,000 each . . . . .	1,600	
(The above promotions and those which follow, affecting clerical and subclerical employees, are recommended in order that the salaries of the respective positions may conform to the minimum salary recommended for such positions, as set forth in the general note regarding minimum salaries. To accomplish this result, a number of changes in title will be necessary and are indicated.)		
(111) 2 clerks, \$840 to \$1,000 each . . . . .	320	
(See preceding note.)		
(112) 4 messengers or laborers, at \$840 each, to 4 skilled laborers, at \$1,000 each . . . . .	640	
(See preceding note.)		
(113) 10 messengers or laborers, \$840 to \$900 each . . . . .	600	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
<i>Promotions—Continued.</i>		
(114) 12 assistant messengers, laborers, or messenger boys, at \$720 each, to 12 messengers or laborers, at \$900 each-----	\$2,160	
(See preceding note.)		
(115) 1 messenger or laborer, \$660 to \$900-----	240	
(See preceding note.)		
(116) 73 watchmen, \$720 to \$900 each-----	13,140	
(See preceding note.)		
(117) 14 assistant messengers, messenger boys, or laborers, at \$600 each, to 14 messengers or laborers, at \$900 each-----	4,200	
(See preceding note.)		
(118) 8 laborers or messenger boys, at \$480 each, to 8 messengers or laborers, at \$900 each--	3,360	
(See preceding note.)		
(119) 1 skilled laborer, \$960 to \$1,000-----	40	
(See preceding note.)		
(120) 1 skilled laborer, \$840 to \$1,000-----	160	
(See preceding note.)		
(121) 1 skilled laborer, \$720, to 1 watchman, \$900--	180	
(See preceding note.)		
(122) 1 skilled laborer, \$720, to 1 telephone operator, \$840-----	120	
(See preceding note.)		
(123) 1 messenger or messenger boy, \$360, to 1 messenger boy, \$480-----	120	
(See preceding note.)		
<i>New places:</i>		
(124) 1 attorney-----	3,500	
(This place and 1 attorney, \$3,250, and 6 attorneys, at \$2,500 each, are recommended in lieu of 6 law clerks, at \$2,250 each, and 2 law clerks, at \$1,600 each, dropped, as below. If these changes are approved, it will make possible increases in the salaries of 22 lawyers in the Solicitor's office. Several of the most efficient and valuable lawyers in the department have had no promotion for 6 years, and in other cases no promotion has been received for from 3 to 4 years. At a time when private enterprises are offering unusually high salaries for various services, including legal, it is difficult to retain men in the department at the small salaries they are now receiving. Recently one of the Solicitor's assistants resigned to accept, at a much higher salary than the department was paying, a position with a large commercial corporation in Chicago. Similar opportunities are presented to other lawyers of the department.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
<i>New places—Continued.</i>		
(125) 1 attorney----- \$3, 250 (See preceding note.)		
(126) 6 attorneys, at \$2,500 each----- 15, 000 (See preceding note.)	\$50, 650	
<i>Places dropped:</i>		
(127) 6 law clerks, at \$2,250 each----- 13, 500 (See preceding note.)		
(128) 2 law clerks, at \$1,600 each----- 3, 200 (See preceding note.)	16, 700	
	33, 950	
<i>Changes in title:</i>		
(129) 1 law clerk, \$3,250, to 1 attorney, \$3,250.  (The title of the above place, and 2 law clerks, at \$3,000 each, 2 law clerks, at \$2,750 each, 4 law clerks, at \$2,500 each, 2 law clerks, at \$2,250 each, 1 law clerk, \$2,200, and 5 law clerks, at \$2,000 each, immediately following, are recommended changed to "attorney." The title "law clerk" is wholly inapplicable to most of the legal positions and their incumbents in the Solicitor's office, as it implies a person performing mere routine legal work incident to general clerical employment and does not indicate the real character of the legal work of this department. The lawyers in the department, with few exceptions, have had experience and training in the private practice of law, and those who have not had such training have acquired experience in the practice of law in attendance in the courts in handling the department's litigated cases. They are attorneys in every sense of the word and are capable of handling the department's business, both in the office and in the courts, creditably both to the department and to themselves. In handling this legal work they are frequently pitted against experienced and well-paid attorneys, and they have always acquitted themselves creditably. For these reasons it is urgently recommended that the proposed change in title be approved.)		
(130) 2 law clerks, at \$3,000 each, to 2 attorneys, at \$3,000 each.  (See preceding note.)		
(131) 2 law clerks, at \$2,750 each, to 2 attorneys, at \$2,750 each.  (See preceding note.)		
(132) 4 law clerks, at \$2,500 each, to 4 attorneys, at \$2,500 each.  (See preceding note.)		
(133) 2 law clerks, at \$2,250 each, to 2 attorneys, at \$2,250 each.  (See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
<i>Changes in title—Continued.</i>		
(134) 1 law clerk, \$2,200, to 1 attorney, \$2,200.  (See preceding note.)		
(135) 5 law clerks, at \$2,000 each, to 5 attorneys, at \$2,000 each.  (See preceding note.)		
(136) 1 skilled laborer, \$840, to 1 telephone operator, \$840.  (The title of this position and those immediately following are recommended changed, as indicated, in order that the titles of the positions will indicate more clearly the character of work performed.)		
(137) 8 assistant messengers, messenger boys, or laborers, at \$600 each, to 8 messenger boys, at \$600 each.  (See preceding note.)		
(138) 16 laborers or messenger boys, at \$480 each, to 16 messenger boys, at \$480 each.  (See preceding note.)		
<i>New language:</i>		
(139) After the item "two law clerks, at \$1,600 each," insert:  <i>"Provided, That hereafter the position of attorney in the Department of Agriculture shall be and remain in the competitive classified civil service, anything in the law or in the civil-service rules and regulations to the contrary notwithstanding, and the law clerks now in said department who may be appointed or promoted to said positions of attorney shall retain all the rights of competitive employees, and the Secretary of Agriculture may detail said attorneys for service in or out of the District of Columbia."</i>  (This proviso is added in order to preserve the classified civil-service status of the positions of attorney and of the persons who may be appointed or promoted to those positions. Without such a proviso the attorneyships would fall within the exception in the civil-service rules and could be filled without compliance with the civil-service rules applicable to positions in the competitive classified civil service.)		
(140) The following new language should also be inserted after the item, "fifteen charwomen, at \$240 each":  <i>"For salaries and compensation of necessary employees in the mechanical shops and power plant of the Department of Agriculture, \$90,000: Provided, That hereafter the Secretary of Agriculture may, by transfer settlement through the Treasury, reimburse any appropriation made for the salaries and compensation of employees in the mechanical shops of the department from the appropriation made for the bureau, office, or division for which any work in said shops is performed, and such reimbursement shall be at the actual cost of such work for supervision and labor"</i>	<hr/> \$90, 000	
	123, 950	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(141) and the following places, aggregating \$93,080, omitted from the statutory roll of the office of the Secretary:		
1 mechanical superintendent-----	\$2,500	
1 mechanical assistant-----	1,800	
1 mechanical assistant-----	1,400	
1 mechanical assistant-----	1,380	
1 engineer-----	1,400	
1 electrical engineer and draftsman-----	1,200	
2 assistant engineers, at \$1,200 each-----	2,400	
2 assistant engineers, at \$1,000 each-----	2,000	
1 fireman-----	840	
8 firemen, at \$720 each-----	5,760	
1 chief elevator conductor-----	840	
16 elevator conductors, at \$720 each-----	11,520	
3 elevator conductors, at \$600 each-----	1,800	
1 superintendent of shops-----	1,400	
1 cabinet-shop foreman-----	1,200	
5 cabinetmakers or carpenters, at \$1,200 each-----	6,000	
3 cabinetmakers or carpenters, at \$1,100 each-----	3,300	
9 cabinetmakers or carpenters, at \$1,020 each-----	9,180	
3 cabinetmakers or carpenters, at \$900 each-----	2,700	
1 instrument maker-----	1,200	
1 electrician-----	1,100	
2 electrical wiremen, at \$1,100 each-----	2,200	
1 electrical wireman-----	1,000	
1 electrical wireman-----	900	
1 electrician's helper-----	840	
3 electrician's helpers, at \$720 each-----	2,160	
1 painter-----	1,020	
1 painter-----	1,000	
5 painters, at \$900 each-----	4,500	
5 plumbers or steamfitters, at \$1,020 each-----	5,100	
2 plumber's helpers, at \$840 each-----	1,680	
2 plumber's helpers, at \$720 each-----	1,440	
1 blacksmith-----	900	
1 elevator machinist-----	900	
1 tinner or sheet-metal worker-----	1,100	
1 tinner's helper-----	720	
4 mechanics, at \$1,200 each-----	4,800	
1 mechanic-----	1,000	
1 skilled laborer-----	900	
	\$93,080	
Net increase-----	30,870	

The entire mechanical-shop force of the department has been underpaid for some years. All places on the shop roll are statutory and promotions have been slow and comparatively infrequent.

It is believed that as long as a statutory roll for mechanics and other employees in the shops and power plant is retained, the situation will be unsatisfactory for the following reasons:

(1) The statutory roll is not flexible. There may be a large amount of outstanding work in the cabinet shop with simultaneously a small amount of work in the plumbing shop. Yet a vacancy in the plumbing shop occurring at this time would have to be filled with a plumber and could not be used to obtain a cabinetmaker, though the services of a cabinetmaker rather than a plumber might be required.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*Salaries, Office of the Secretary of Agriculture—Continued.*

(2) The force can not be readily changed to suit the volume of work. This makes it necessary for the bureaus to carry on their lump-sum funds extra mechanics to meet the increasing volume of work. These extra men, though often not so good mechanics as the regular force, have to be paid the prevailing rate. This naturally causes much dissatisfaction among the regular men who receive lower compensation for doing a better class of work.

(3) It is impossible to get good mechanics to accept the low entrance salaries. Hence the loss of efficiency to the department and the increased difficulty of getting men who can do the high-class work required on the department's special work.

(4) Rates of pay do not follow commercial rates. The Government Printing Office, the Bureau of Engraving and Printing, and the Washington Navy Yard carry their mechanical force on lump-sum rolls on a per diem basis. These departments have increased the rates of pay of their mechanical force as the demand for labor has increased during the past two years; while the rates paid the Department of Agriculture's force have remained stationary, although small increases have been asked in the estimates each year.

(5) Under the present statutory-roll arrangement the particular project desiring mechanical work can not be charged for labor performed in the manufacture of scientific apparatus, equipment, etc. Hence the tendency is to increase the amount of work performed by the mechanical shops over what would be required if the cost were charged against the appropriation of the particular project requesting the work.

The new provision designed to carry this plan into effect has been prepared in consultation with the solicitor of the department and is believed to be adequate for the purpose in view. It has a twofold object:

(A) To provide a lump-sum appropriation of \$90,000 in lieu of the present statutory and lump-sum places aggregating \$93,080.

(B) To authorize reimbursement of this \$90,000 lump sum from bureau lump funds at the actual cost of the labor performed by the shop force for bureau needs.

The plan proposed would have the following advantages:

(1) The shop's relations with the bureaus would be on a business basis. Each bureau would pay by reimbursement monthly for all work performed on its projects. Hence funds would be automatically provided for the expansion of the mechanical force as necessary to provide for increased volume of work desired by the bureaus.

(2) Each project would be charged for the actual work done on the design and construction of scientific apparatus and equipment. Hence reports of expenditures on these projects would more nearly show the actual money expended.

(3) The number and kind of mechanics could be varied to exactly suit the requirements of the work.

(4) The salaries of the mechanical force could be changed from time to time to suit the varying labor conditions, and a contented and efficient working force could be always secured.

The total in salaries now paid this force is \$93,080, and the proposed readjustment will result in a total salary roll of \$119,760, or an increase of \$26,680. The difference between the \$119,760 and the \$90,000 provided by this paragraph will be made up by reimbursement for labor performed for bureaus by transfer settlement, the cost of each job to be accurately computed.

A comparison of the salaries paid the various classes of mechanics on the present statutory roll of this department with the salaries paid for similar services in the Bureau of Engraving and Printing, the Washington Navy Yard, and the Government Printing Office shows that the rates paid the latter employees are much in excess of those prevailing in the Department of Agriculture.

If the lump-fund appropriation of \$90,000 is allowed, all the mechanical-shop and power-plant employees now carried on the statutory roll (with salaries aggregating \$93,080) will be transferred to this new item.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(142) If the recommendation for a lump fund of \$90,000 to provide for the salaries of employees of the mechanical shops is not favorably acted upon by the Committee, the following additional changes affecting these employees, and involving an increase of \$26,680, should be made in the statutory roll, in order to bring their salaries up to the minimum scale for such positions as set forth in the general note regarding minimum salaries, making a total net increase in the statutory roll of the office of the Secretary of \$61,370:		
(143) 1 mechanical assistant, \$1,800 to \$2,000....	\$200	
(144) 1 mechanical assistant, \$1,400 to \$1,600....	200	
(145) 1 mechanical assistant, \$1,380 to \$1,600....	220	
(146) 1 engineer, \$1,400 to \$1,800.....	400	
(147) 1 electrical engineer and draftsman, \$1,200 to \$1,500.....	300	
(148) 2 assistant engineers, \$1,200 to \$1,500 each	600	
(149) 2 assistant engineers, \$1,000 to \$1,200 each..	400	
(150) 1 fireman, \$840, to 1 oiler, \$1,000.....	160	
(151) 8 firemen, \$720 to \$1,000 each.....	2, 240	
(152) 1 chief elevator conductor, \$840 to \$960....	120	
(153) 16 elevator conductors, \$720 to \$840 each...	1, 920	
(154) 3 elevator conductors, \$600 to \$840 each....	720	
(155) 1 superintendent of shops, \$1,400, to 1 mechanical assistant, \$1, 600.....	200	
(156) 1 cabinet shop foreman, \$1,200, to 1 cabinetmaker or carpenter, \$1,500.....	300	
(157) 5 cabinetmakers or carpenters, \$1,200 to \$1,500 each.....	1, 500	
(158) 3 cabinetmakers or carpenters, \$1,100 to \$1,500 each.....	1, 200	
(159) 9 cabinetmakers or carpenters, \$1,020 to \$1,400 each.....	3, 420	
(160) 3 cabinetmakers or carpenters, \$900 to \$1,200 each.....	900	
(161) 1 electrician, \$1,100, to 1 mechanic, \$1,500..	400	
(162) 2 electrical wiremen, at \$1,100 each, to 2 mechanics, at \$1,500 each.....	800	
(163) 1 electrician or wireman, \$1,000, to 1 mechanic, \$1,400 .....	400	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year June 30, 1919.
<i>Salaries, Office of the Secretary of Agriculture—Continued.</i>		
(164) 1 electrical wireman, \$900, to 1 mechanic, \$1,200 . . . . .	\$300	
(165) 1 electrician's helper, \$840 to \$960 . . . . .	120	
(166) 3 electrician's helpers, \$720 to \$960 each . . . . .	720	
(167) 1 painter, \$1,020 to \$1,400 . . . . .	380	
(168) 1 painter, \$1,000 to \$1,400 . . . . .	400	
(169) 5 painters, \$900 to \$1,200 each . . . . .	1,500	
(170) 5 plumbers or steamfitters, at \$1,020 each, to 5 mechanics, at \$1,500 each . . . . .	2,400	
(171) 2 plumber's helpers, \$840 to \$960 each . . . . .	240	
(172) 2 plumber's helpers, \$720 to \$960 each . . . . .	480	
(173) 1 blacksmith, \$900, to 1 mechanic, \$1,400 . . . . .	500	
(174) 1 elevator machinist, \$900, to 1 mechanic, \$1,400 . . . . .	500	
(175) 1 tinner or sheet-metal worker, \$1,100 to \$1,400 . . . . .	300	
(176) 1 tinner's helper, \$720 to \$960 . . . . .	240	
(177) 1 mechanic, \$1,200, to 1 mechanical assistant, \$1,500 . . . . .	300	
(178) 3 mechanics, \$1,200 to \$1,500 each . . . . .	900	
(179) 1 instrument maker, \$1,200, to 1 mechanic, \$1,500 . . . . .	300	
(180) 1 mechanic, \$1,000 to \$1,400 . . . . .	400	
(181) 1 skilled laborer, \$900 to \$1,000 . . . . .	100	
	26,680	
<i>Salaries, Office of Farm Management—</i>		
(1) One chief of office ( <i>R. S., p. 87, secs. 520-523; acts Mar. 4, 1915, vol. 38, p. 1087, sec. 1; Oct. 1, 1918, vol. 40, p. 974, sec. 1</i> ) . . . . .	\$4,000.00	
(2) One assistant to the chief ( <i>same acts</i> ) . . . . .	2,520.00	
(3) One executive assistant ( <i>same acts</i> ) . . . . .	2,250.00	
(4) Two clerks, class 4 ( <i>same acts</i> ) . . . . .	3,600.00	
(5) Two clerks, class 3 ( <i>same acts</i> ) . . . . .	3,200.00	
(6) Three clerks, class 2 ( <i>same acts</i> ) . . . . .	4,200.00	
(7) Ten clerks, class 1 (increase of 2 by transfer from lump fund for general expenses) ( <i>same acts</i> ) . . . . .	12,000.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of Farm Management—Continued.</i>		
(8) Three clerks, at \$1,100 each ( <i>R. S., p. 87, secs. 520–523; acts Mar. 4, 1915, vol. 38, p. 1087, sec. 1; Oct. 1, 1918, vol. 40, p. 974, sec. 1</i> ) -----	\$3,300.00	
(9) Four clerks, at \$1,080 each ( <i>same acts</i> ) -----	4,320.00	
(10) One clerk or draftsman ( <i>same acts</i> ) -----	1,020.00	
(11) Ten clerks, at \$1,000 each ( <i>same acts</i> ) -----	10,000.00	
(12) Eighteen clerks, at \$900 each ( <i>same acts</i> ) -----	16,200.00	
(13) Six clerks or map tracers, at \$840 each ( <i>same acts</i> ) -----	5,040.00	
(14) One messenger or laborer ( <i>same acts</i> ) -----	720.00	
(15) One messenger, messenger boy, or laborer ( <i>same acts</i> ) -----	660.00	
(16) Four messengers, messenger boys, or laborers, at \$480 each ( <i>same acts</i> ) -----	1,920.00	
(17) Five charwomen, at \$240 each ( <i>same acts</i> ) -----	1,200.00	
(18) One library assistant ( <i>same acts</i> ) -----	1,440.00	
(19) One library assistant ( <i>same acts</i> ) -----	900.00	
(20) One photographer ( <i>same acts</i> ) -----	1,400.00	
(21) One cartographer ( <i>same acts</i> ) -----	1,500.00	
(22) One draftsman ( <i>same acts</i> ) -----	1,440.00	
(23) One draftsman ( <i>same acts</i> ) -----	1,200.00	
(24) One draftsman (by transfer from lump fund for general expenses) ( <i>same acts</i> ) -----	1,100.00	
(25) Two draftsmen, at \$900 each ( <i>same acts</i> ) -----	1,800.00	
	\$86,930.00	\$83,430.00
NOTE.—Apparent increase, \$3,500; no actual increase, as follows:		
<i>Transfers from lump fund of this office, which fund has been correspondingly reduced.</i>		
2 clerks, class 1, from general expenses.....	\$2,400	
1 draftsman, from general expenses.....	1,100	
Apparent increase.....	3,500	
SUPPLEMENTAL ESTIMATE.		
<i>Promotions:</i>		
(26) 1 library assistant, \$900 to \$1,100.....	\$200	
(This promotion is recommended in order to provide a salary more nearly commensurate with the work performed, and in order to meet the salary offered this employee outside the department. She has been in the service since June 16, 1917, and has had no promotion.)		
(27) 1 messenger or laborer, \$720 to \$900.....	180	
(This promotion is recommended in order that the salary of the position may conform to the minimum salary recommended for messengers and laborers, as set forth in the general note regarding minimum salaries.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Office of Farm Management—Continued.</i>		
<i>New places:</i>		
(28) 2 clerks, class 2-----	\$2,800	
(This place and those immediately following are recommended in lieu of 4 clerks, at \$1,080 each, 18 clerks, at \$900 each, and 6 clerks or map tracers, at \$840 each, recommended dropped, as below. This recommendation involves the abolishing of the \$900 and \$840 grades of clerks altogether. It is impossible to retain competent clerks at such salaries. It is proposed to make promotions to the new places. Five of the places of clerks or map tracers at \$840 are now vacant. It is planned to promote one of these map tracers to a \$900 draftsman place, and to advance the pay of one draftsman from \$900 to \$1,020, and one from \$1,020 to \$1,100.)		
(29) 4 clerks, at \$1,100 each-----	4,400	
(See preceding note.)		
(30) 17 clerks, at \$1,000 each-----	17,000	
(See preceding note.)		
(31) 1 draftsman-----	1,100	
(See preceding note.)		\$25,680
<i>Places dropped:</i>		
(32) 4 clerks, at \$1,080 each-----	4,320	
(See preceding note.)		
(33) 18 clerks, at \$900 each-----	16,200	
(See preceding note.)		
(34) 6 clerks or map tracers, at \$840 each-----	5,040	
(See preceding note.)		25,560
Net increase-----		120
<i>Changes in title:</i>		
(35) 1 messenger, messenger boy, or laborer, \$660, to 1 messenger boy, \$660.		
(This change and those immediately following are recommended in order that the titles of the positions will more clearly indicate the character of work performed.)		
(36) 3 messengers, messenger boys, or laborers, at \$480 each, to 3 messenger boys, at \$480 each.		
(See preceding note.)		
(37) 1 messenger, messenger boy, or laborer, \$480, to 1 charwoman, \$480,		
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																																																																																																																																																
<i>General Expenses, Office of Farm Management—</i>																																																																																																																																																																																																																																																																		
(38) For the employment of persons in the city of Washington and elsewhere, furniture, supplies, traveling expenses, rent outside of the District of Columbia, and all other expenses necessary in carrying out the work herein authorized, as follows ( <i>acts Mar. 4, 1915, vol. 38, p. 1087, sec. 1; Oct. 1, 1918, vol. 40, p. 974, sec. 1</i> ):																																																																																																																																																																																																																																																																		
(39) To investigate and encourage the adoption of improved methods of farm management and farm practice, <b>[\$221,660] \$218,160 (same acts)</b>	<b>\$218,160.00</b>	<b>\$221,660.00</b>																																																																																																																																																																																																																																																																
NOTE.—There is an apparent decrease in this item of \$3,500, due to the transfer to the statutory roll of 2 clerks of class 1 and 1 draftsman at \$1,100.																																																																																																																																																																																																																																																																		
<table border="1"> <thead> <tr> <th>Employees.</th> <th>Rate.</th> <th>Estimated, 1920.</th> <th>Expended, 1918.</th> </tr> </thead> <tbody> <tr> <td>Salaries:</td> <td></td> <td>Number.</td> <td>Number.</td> </tr> <tr> <td>Assistant chief.....per annum.</td> <td>\$3,500.00</td> <td>1</td> <td>..</td> </tr> <tr> <td>Assistant chief.....do.....</td> <td>3,250.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Agriculturists.....do.....</td> <td>3,250.00</td> <td>2</td> <td>2</td> </tr> <tr> <td>Agriculturists.....do.....</td> <td>3,000.00</td> <td>3</td> <td>4</td> </tr> <tr> <td>Agriculturists.....do.....</td> <td>2,760.00</td> <td>4</td> <td>3</td> </tr> <tr> <td>Agriculturist.....do.....</td> <td>2,640.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Agriculturists.....do.....</td> <td>2,520.00</td> <td>8 (1 new)</td> <td>7</td> </tr> <tr> <td>Agriculturist.....do.....</td> <td>2,400.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Agriculturists.....do.....</td> <td>2,280.00</td> <td>2</td> 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Rate.	Estimated, 1920.	Expended, 1918.	Salaries:		Number.	Number.	Assistant chief.....per annum.	\$3,500.00	1	..	Assistant chief.....do.....	3,250.00	..	1	Agriculturists.....do.....	3,250.00	2	2	Agriculturists.....do.....	3,000.00	3	4	Agriculturists.....do.....	2,760.00	4	3	Agriculturist.....do.....	2,640.00	1	1	Agriculturists.....do.....	2,520.00	8 (1 new)	7	Agriculturist.....do.....	2,400.00	..	1	Agriculturists.....do.....	2,280.00	2	3	Agriculturists.....do.....	2,220.00	1	2 (1 temp.)	Agriculturists.....do.....	2,040.00	1	3 (2 temp.)	Statistical expert.....do.....	2,760.00	..	1 (temp.)	Assistant agriculturists.....do.....	2,520.00	2	1	Assistant agriculturists.....do.....	2,280.00	2	3	Assistant agriculturists.....do.....	2,040.00	2	2	Assistant agriculturist.....do.....	2,000.00	1	1	Assistant agriculturists.....do.....	1,980.00	..	2 (1 temp.)	Assistant agriculturists.....do.....	1,800.00	1	3 (2 temp.)	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Clerks*.....do.....	1,200.00	..	2	Clerks†.....do.....	1,200.00	..	2	Clerk.....do.....	1,200.00	1	1	Clerk*.....do.....	1,100.00	..	1	Clerk.....do.....	1,080.00	..	1 (temp.)	Clerk*.....do.....	1,000.00	..	1 (pt. time.)	Clerks*.....do.....	900.00	..	6	Assistant agriculturist, field assistants, agents, collaborators, clerks, library assistant, watchmen, messenger boys and char-women, \$900 to \$1.....per annum.....	..	9	49 (41 temp.)	Wages:				Miscellaneous temporary labor—				Per month.....	25.00	..	2	Per diem.....	4.00	..	1			83	132	Salaries.....		\$162,500.00	\$144,567.75	Wages.....			196.33	Other objects of expenditure:				Stationery.....		4,000.00	3,577.13	Traveling expenses.....		47,000.00	38,861.67	Equipment and material.....		2,120.00	4,619.40	Miscellaneous items.....		2,540.00	1,415.20	Total.....		218,160.00	193,237.48		
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Per month.....	25.00	..	2																																																																																																																																																																																																																																																															
Per diem.....	4.00	..	1																																																																																																																																																																																																																																																															
		83	132																																																																																																																																																																																																																																																															
Salaries.....		\$162,500.00	\$144,567.75																																																																																																																																																																																																																																																															
Wages.....			196.33																																																																																																																																																																																																																																																															
Other objects of expenditure:																																																																																																																																																																																																																																																																		
Stationery.....		4,000.00	3,577.13																																																																																																																																																																																																																																																															
Traveling expenses.....		47,000.00	38,861.67																																																																																																																																																																																																																																																															
Equipment and material.....		2,120.00	4,619.40																																																																																																																																																																																																																																																															
Miscellaneous items.....		2,540.00	1,415.20																																																																																																																																																																																																																																																															
Total.....		218,160.00	193,237.48																																																																																																																																																																																																																																																															

† Recommended for transfer to statutory roll in estimates for 1920.

\* Transferred to statutory roll in Agricultural act for 1919.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Office of Farm Management—Continued.</i>		
<i>Statement of clerks employed in District of Columbia under lump sum appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303.)</i>		
GENERAL EXPENSES—OFFICE OF FARM MANAGEMENT.		
1 clerk, \$1,800 per annum. 1 clerk, \$1,400 per annum. 5 clerks at \$1,200 each per annum. 1 clerk, \$1,100 per annum. 1 clerk, \$1,000 per annum. 14 clerks at \$900 each per annum. 4 clerks at \$840 each per annum. 1 clerk, \$720 per annum. 1 clerk, \$3 per diem, when actually employed.		
Total for Office of the Secretary of Agriculture-----	\$796, 810. 00	\$767, 090. 00
Appropriations for 1910..... 174, 570   Estimates for 1911..... 198, 770 Appropriations for 1911..... 229, 870   Estimates for 1912..... 276, 650 Appropriations for 1912..... 276, 450   Estimates for 1913..... 287, 300 Appropriations for 1913..... 292, 280   Estimates for 1914..... 305, 570 Appropriations for 1914..... 308, 820   Estimates for 1915..... 332, 380 Appropriations for 1915..... 339, 880   Estimates for 1916..... *635, 360 Appropriations for 1916..... *623, 120   Estimates for 1917..... *698, 450 Appropriations for 1917..... *688, 160   Estimates for 1918..... *757, 880 Appropriations for 1918..... *717, 820   Estimates for 1919..... *770, 210 Appropriations for 1919..... *767, 090   Estimates for 1920..... *796, 810		

\* Includes Office of Farm Management.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<b>WEATHER BUREAU.</b>		
<i>Salaries, Weather Bureau—</i>		
(1) One chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Oct. 1, 1890, vol. 26, p. 653, secs. 4, 5; Oct. 1, 1918, vol. 40, p. 974, sec. 1</i> )-----	\$5,000.00	
(2) One assistant chief of bureau ( <i>same acts</i> )-----	3,250.00	
(3) One chief clerk ( <i>same acts</i> )-----	2,500.00	
(4) One chief of division of stations and accounts ( <i>same acts</i> )---	2,750.00	
(5) One chief of printing division ( <i>same acts</i> )-----	2,500.00	
(6) Three chiefs of division, at \$2,000 each ( <i>same acts</i> )-----	6,000.00	
(7) Eight clerks, class 4 ( <i>same acts</i> )-----	14,400.00	
(8) Eleven clerks, class 3 ( <i>same acts</i> )-----	17,600.00	
(9) Twenty-three clerks, class 2 ( <i>same acts</i> )-----	32,200.00	
(10) Thirty-one clerks, class 1 ( <i>same acts</i> )-----	37,200.00	
(11) Twenty-six clerks, at \$1,000 each (increase of 4 by transfer from lump fund for aerological stations) ( <i>same acts</i> )-----	26,000.00	
(12) Ten clerks, at \$900 each ( <i>same acts</i> )-----	9,000.00	
(13) One foreman of printing ( <i>same acts</i> )-----	1,600.00	
(14) One lithographer ( <i>same acts</i> )-----	1,500.00	
(15) Three lithographers, at \$1,200 each ( <i>same acts</i> )-----	3,600.00	
(16) One pressman ( <i>same acts</i> )-----	1,200.00	
(17) One printer or compositor ( <i>same acts</i> )-----	1,440.00	
(18) Five printers or compositors, at \$1,350 each ( <i>same acts</i> )-----	6,750.00	
(19) Fourteen printers or compositors, at \$1,300 each ( <i>same acts</i> )--	18,200.00	
(20) One printer or compositor ( <i>same acts</i> )-----	1,200.00	
(21) Six printers or compositors, at \$1,080 each ( <i>same acts</i> )-----	6,480.00	
(22) Five printers or compositors, at \$1,000 each ( <i>same acts</i> )-----	5,000.00	
(23) Four foldes and feeders, at \$720 each ( <i>same acts</i> )-----	2,880.00	
(24) One instrument maker ( <i>same acts</i> )-----	1,440.00	
(25) Three instrument makers, at \$1,300 each ( <i>same acts</i> )-----	3,900.00	
(26) One instrument maker ( <i>same acts</i> )-----	1,260.00	
(27) One skilled mechanic (by transfer from lump fund for aerological stations) ( <i>same acts</i> )-----	1,300.00	
(28) Three skilled mechanics, at \$1,200 each ( <i>same acts</i> )-----	3,600.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Weather Bureau—Continued.</i>		
(29) Five skilled mechanics, at \$1,000 each ( <i>R. S.</i> , p. 87, secs. 520–523; <i>acts Oct. 1, 1890</i> , vol. 26, p. 653, secs. 4, 5; <i>Oct. 1, 1918</i> , vol. 40, p. 974, sec. 1) -----	\$5,000.00	
(30) One skilled mechanic ( <i>same acts</i> ) -----	840.00	
(31) One skilled mechanic ( <i>same acts</i> ) -----	720.00	
(32) Six skilled artisans, at \$840 each ( <i>same acts</i> ) -----	5,040.00	
(33) One engineer ( <i>same acts</i> ) -----	1,300.00	
(34) One fireman and steamfitter ( <i>same acts</i> ) -----	840.00	
(35) Four firemen, at \$720 each ( <i>same acts</i> ) -----	2,880.00	
(36) One captain of the watch ( <i>same acts</i> ) -----	1,000.00	
(37) One electrician ( <i>same acts</i> ) -----	1,200.00	
(38) One repairman (by transfer from lump fund for station salaries) ( <i>same acts</i> ) -----	960.00	
(39) One gardener ( <i>same acts</i> ) -----	1,000.00	
(40) Four repairmen, at \$840 each ( <i>same acts</i> ) -----	3,360.00	
(41) Six repairmen, at \$720 each ( <i>same acts</i> ) -----	4,320.00	
(42) Four watchmen, at \$720 each ( <i>same acts</i> ) -----	2,880.00	
(43) Twenty-eight messengers, messenger boys, or laborers, at \$720 each (increase of 10 by transfer of 10 laborers from lump fund for aerological stations) ( <i>same acts</i> ) -----	20,160.00	
(44) Six messengers, messenger boys, or laborers, at \$660 each ( <i>same acts</i> ) -----	3,960.00	
(45) Thirty-three messengers, messenger boys, or laborers, at \$600 each (increase of 2 by transfer of 2 laborers from lump fund for aerological stations) ( <i>same acts</i> ) -----	19,800.00	
(46) Ninety-nine messengers, messenger boys, or laborers, at \$480 each ( <i>same acts</i> ) -----	47,520.00	
(47) One charwoman ( <i>same acts</i> ) -----	360.00	
(48) Three charwomen, at \$240 each ( <i>same acts</i> ) -----	720.00	
	\$343,610.00	\$328,950.00
Appropriations for 1910..... \$205,310   Estimates for 1911..... \$206,150		
Appropriations for 1911..... 206,150   Estimates for 1912..... 342,800		
Appropriations for 1912..... 313,170   Estimates for 1913..... 317,120		
Appropriations for 1913..... 315,930   Estimates for 1914..... 330,240		
Appropriations for 1914..... 325,860   Estimates for 1915..... 328,270		
Appropriations for 1915..... 327,270   Estimates for 1916..... 324,640		
Appropriations for 1916..... 332,900   Estimates for 1917..... 341,210		
Appropriations for 1917..... 336,060   Estimates for 1918..... 342,230		
Appropriations for 1918..... 327,900   Estimates for 1919..... 328,950		
Appropriations for 1919..... 328,950   Estimates for 1920..... 343,610		
NOTE.—Apparent increase, \$14,660; no actual increase, as follows:		
<i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced.</i>		
4 clerks, at \$1,000 each, from aerological stations..... \$4,000		
1 skilled mechanic, from aerological stations..... 1,300		
1 repairman, from station salaries..... 960		
10 laborers, at \$720 each, from aerological stations..... 7,200		
2 laborers, at \$600 each, from aerological stations..... 1,200		
Apparent increase..... 14,660		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Weather Bureau—Continued.</i>		
SUPPLEMENTAL ESTIMATE.		
<i>Promotions:</i>		
(49) 1 chief clerk, \$2,500 to \$3,000 . . . . .	\$500	
(This employee is one of the administrative officers of the Weather Bureau, acts as chief in the absence of the chief and assistant chief, has important responsibilities in connection with the personnel and business activities of the field stations, and has charge of the buildings and grounds of the bureau in Washington. By reason of actual service at field stations and from holding for long periods several responsible assignments to duty in Washington, he is exceptionally familiar with every phase of Weather Bureau activities. He has been connected with the bureau for over 27 years and has occupied the position of chief clerk since July 1, 1915, without change in salary since that date.)		
(50) 3 lithographers, \$1,200 to \$1,350 each . . . . .	450	
(The above promotions, and the promotion of one pressman from \$1,200 to \$1,350, indicated below, are recommended in order to provide salaries for these employees that will conform more nearly to the salaries paid by commercial firms, the union scale being \$30 per week, or \$1,560 per annum. A vacancy has existed in the grade of lithographer at \$1,200 for several months. The Civil Service Commission is unable to supply eligibles, and it has not been possible to find any one in Washington, Baltimore, or Philadelphia who is willing to accept the position on account of the small salary. It has been necessary to appoint a temporary employee on the miscellaneous roll at \$125 per month to keep the lithographic work up to date. Only the most skillful men can be used for the grade of work required by the Weather Bureau.)		
(51) 1 pressman, \$1,200 to \$1,350 . . . . .	150	
(See preceding note.)		
(52) 6 printers or compositors, \$1,080 to \$1,200 each . . . . .	720	
(These promotions and the promotion of five printers or compositors from \$1,000 to \$1,200 each, indicated below, are recommended in order that the salaries of these employees will more nearly conform to the rate paid similar employees at the Government Printing Office and in commercial establishments. It is difficult to secure and retain good men, especially at field stations, at wages lower than commercial rates, and when temporary printers are employed it is frequently necessary to pay them a salary in excess of that paid to permanent station employees. Two vacancies occurred during the past eight months. It required more than three months and the exhaustion of a number of certificates from the Civil Service Commission before one of them was filled, and this appointee soon became dissatisfied. The other vacancy, which has existed for several months, is still unfilled.)		
(53) 5 printers or compositors, \$1,000 to \$1,200 each . . . . .	1,000	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Weather Bureau—Continued.</i>		
<i>Promotions—Continued.</i>		
(54) 4 folders and feeders, at \$720 each, to 4 press feeders, at \$840 each -----	\$480	
(These promotions are recommended in order to provide a salary that will assure the retention of competent help. The places are frequently vacant and one is now filled by a temporary employee with little or no experience. The union scale is even higher than \$840, but it is believed that competent help can be secured and retained at the salary recommended. The title of the positions is recommended changed to "press feeder" in order more clearly to indicate the character of work performed.)		
(55) 3 instrument makers, \$1,300 to \$1,440 each-----	420	
(These promotions and the promotion of one instrument maker from \$1,260 to \$1,440, indicated below, are recommended in order to provide salaries more nearly commensurate with the duties performed. All the employees affected possess exceptional skill. They are engaged in the construction and repair of delicate instruments used in observational work and in upper-air investigations. They are all doing practically the same kind of work and should receive the same compensation. The salary recommended, \$1,440, is low for men of their qualifications and skill. Other branches of the Government and private manufacturers pay \$1,800 or more for the same grade of service.)		
(56) 1 instrument maker, \$1,260 to \$1,440-----	180	
(See preceding note.)		
(57) 3 skilled mechanics, at \$1,200 each, to 3 mechanics, at \$1,320 each-----	360	
(These promotions are recommended in order to provide increases in the salaries of employees of the bureau having general supervision of the mechanical force. As set forth in the general note in regard thereto, a minimum salary of \$1,200 for mechanics is recommended, but as the employees for whom the above promotions are requested perform supervisory work it is considered highly proper that their compensation should be somewhat higher than the salary paid the general mechanical force of the Weather Bureau. The title of these employees has been changed by the elimination of the word "skilled," in order that the title of the mechanical force in the Weather Bureau may conform to the title of mechanics generally throughout the department.)		
(58) 1 engineer, \$1,300 to \$1,500-----	200	
(This employee is an especially capable man and for nine years has been in charge of the heating, lighting, and power plant of the bureau. He is, in fact, a chief engineer, capable of handling heating and power plants of any size. His compensation is far below that paid other engineers of the Government having less capacity and responsibilities.)		
(59) 1 repairman, \$960 to \$1,200-----	240	
(This employee has been in the service of the bureau for a number of years and is an unusually capable man. He is the chief repairman of the Weather Bureau telegraph line extending from Port Angeles to Tatoosh, Wash., and in addition is an expert telegraph operator. In fact, he could command the salary recommended as an operator, and the promotion indicated is urgently recommended in order that his services may be retained.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Weather Bureau—Continued.</i>		
<i>Promotions—Continued.</i>		
(60) 6 skilled artisans, at \$840 each, to 6 messengers or laborers, at \$900 each-----	\$360	
(The above promotions, and those which follow, affecting mechanics, firemen, repairmen, watchmen, messengers, and laborers, are recommended in order that the salaries of the positions may conform to the minimum salary recommended for such positions, as set forth in the general note regarding minimum salaries. To accomplish this result, a number of changes in title will be necessary and are indicated.)		
(61) 1 skilled mechanic, \$840, to 1 mechanic, \$1,200-----	360	
(See preceding note.)		
(62) 5 skilled mechanics, at \$1,000 each, to 5 mechanics, at \$1,200 each-----	1,000	
(See preceding note.)		
(63) 1 fireman and steamfitter, \$840, to 1 mechanic, \$1,200-----	360	
(See preceding note.)		
(64) 4 firemen, \$720 to \$1,000 each-----	1,120	
(See preceding note.)		
(65) 4 repairmen, \$840 to \$1,000 each-----	640	
(See preceding note.)		
(66) 4 repairmen, \$720 to \$1,000 each-----	1,120	
(See preceding note.)		
(67) 4 watchmen, \$720 to \$900 each-----	720	
(See preceding note.)		
(68) 28 messengers, messenger boys, or laborers, at \$720 each, to 28 messengers or laborers, at \$900 each-----	5,040	
(See preceding note.)		
(69) 6 messengers, messenger boys, or laborers, at \$660 each, to 6 messengers or laborers, at \$900 each-----	1,440	
(See preceding note.)		
(70) 22 messengers, messenger boys, or laborers, at \$600 each, to 22 messengers or laborers, at \$900 each-----	6,600	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Weather Bureau—Continued.</i>		
<i>New places:</i>		
(71) 2 clerks, class 4-----	\$3,600	
(These places and 1 clerk, class 3, 1 clerk, class 2, and 5 clerks, class 1, are recommended in lieu of 10 clerks, at \$900 each, with a net increase of \$3,600. These new places will provide promotions for capable and experienced clerks, all of whom have served six years or more, several of them having been connected with the bureau for 10 years or over. The two places at \$1,800 will be used for the promotion of principal assistants in important divisions whose duties require the direction of the division force and responsibility for its work during the absence of the chief of division. The \$1,600 clerks now occupying these positions have had long service, are unusually efficient, and their compensation is regarded as wholly inadequate. It is impossible to secure competent help at \$900, and hence all clerks of this grade are being dropped.)		
(72) 1 clerk, class 3-----	1,600	
(See preceding note.)		
(73) 1 clerk, class 2-----	1,400	
(See preceding note.)		
(74) 5 clerks, class 1-----	6,000	
(See preceding note.)	-----	\$36,060
<i>Places dropped:</i>		
(75) 10 clerks, at \$900 each-----	9,000	
(See preceding note.)		
(76) 1 skilled mechanic-----	720	
(This place and 2 repairmen, at \$720 each, are recommended dropped. In the readjustment of salaries of employees of the Weather Bureau it has been found possible to eliminate these three places.)		
(77) 2 repairmen, at \$720 each-----	1,440	
(See preceding note.)	-----	11,160
Net increase-----	-----	24,900
<i>Changes in title:</i>		
(78) 1 skilled mechanic, \$1,300, to 1 mechanic, \$1,300.		
(This change in title is recommended in accordance with a plan to have the titles of mechanics in the Weather Bureau conform to the title of mechanics generally throughout the department.)		
(79) 11 messengers, messenger boys, or laborers, at \$600 each, to 11 messenger boys, at \$600 each.		
(These changes and those which follow are recommended in order that the titles of the positions may indicate more clearly the character of work performed.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Weather Bureau—Continued.</i>		
<i>Changes in title—Continued.</i>		
(80) 99 messengers, messenger boys, or laborers, at \$480 each, to 99 messenger boys, at \$480 each.		
(See preceding note.)		
<i>General Expenses, Weather Bureau—</i>		
(81) For carrying into effect in the District of Columbia and elsewhere in the United States, in the West Indies, in the Panama Canal, the Caribbean Sea, and on adjacent coasts, in the Hawaiian Islands, in Bermuda, and in Alaska, the provisions of an act approved October first, eighteen hundred and ninety, so far as they relate to the weather service transferred thereby to the Department of Agriculture, for the employment of professors of meteorology, district forecasters, local forecasters, meteorologists, section directors, observers, apprentices, operators, skilled mechanics, instrument makers, foremen, assistant foremen, proof readers, compositors, pressmen, lithographers, [folders and feeders] <i>press feeders</i> , repairmen, station agents, messengers, messenger boys, laborers, special observers, displaymen, and other necessary employees; for fuel, gas, electricity, freight and express charges, furniture, stationery, ice, dry goods, twine, mats, oil, paints, glass, lumber, hardware, and washing towels; for advertising; for purchase, subsistence, and care of horses and vehicles, the purchase and repair of harness, for official purposes only; for instruments, shelters, apparatus, storm-warning towers and repairs thereto; for rent of offices; for repairs and improvements to existing buildings and care and preservation of grounds, including the construction of necessary outbuildings and sidewalks on public streets abutting Weather Bureau grounds; and the erection of temporary buildings for living quarters of observers; for official traveling expenses; for telephone rentals and for telegraphing, telephoning, and cabling reports and messages, rates to be fixed by the Secretary of Agriculture by agreements with the companies performing the service; for the maintenance and repair of Weather Bureau telegraph, telephone, and cable lines; and for every other expenditure required for the establishment, equipment, and maintenance of meteorological offices and stations and for the issuing of weather forecasts and warnings of storms, cold waves, frosts, and heavy snows, the gauging and measuring of the flow of rivers and the issuing of river forecasts and warnings; for observations and reports relating to crops and for other necessary observations and reports, including cooperation with other bureaus of the Government and societies and institutions of learning for the dissemination of meteorological information, as follows ( <i>acts Oct. 1, 1890, vol. 26, p. 653, secs. 4-5; Oct. 1, 1918, vol. 40, pp. 975, 976, sec. 1</i> ):		

NOTE.—It proposed to substitute for "folders and feeders" in the above paragraph the term "press feeders." The latter designation better describes the character of the work performed by these employees. The title "folder and feeder" was established many years ago when a considerable amount of hand folding was done. The employees concerned are now engaged entirely in press feeding.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Weather Bureau—Continued.*

- (82) For necessary expenses in the city of Washington incident to collecting and disseminating meteorological, climatological, and marine information, and for investigations in meteorology, climatology, seismology, volcanology, evaporation, and aerology (*acts Oct. 1, 1890, vol. 26, p. 653, secs. 4-5; Oct. 1, 1918, vol. 40, pp. 975, 976, sec. 1*) ----- \$109,250.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Meteorologists .....	\$3,960.00	3	2
Professor of meteorology .....	3,500.00	1	1
District forecaster .....	3,500.00	.....	1
Meteorologist .....	3,500.00	1	1
Meteorologist .....	3,250.00	1	1
Meteorologist .....	1,620.00	6	6 (1 pt. time)
Professor of meteorology .....	2,880.00	1	1
Professor of meteorology .....	2,520.00	1	1
Climatologist and chief of division .....	2,520.00	1	1
Meteorologists .....	1,800.00	3	3
Observers .....	1,440.00	2	2
Assistant observers .....	1,080.00	2	2
Lithographer .....	1,500.00	..	1 (temp.)
Topographic draftsman .....	1,000.00	..	1 (temp.)
Storm-warning displayman .....	10.00	1	1
		23	25
Salaries .....		\$45,000.00	\$42,282.09
Other objects of expenditure:			
Stationery .....		2,000.00	1,773.91
Equipment and material .....		4,500.00	4,617.14
Telephone and telegraph service .....		38,000.00	37,049.33
Miscellaneous items .....		19,750.00	16,745.84
Total .....		109,250.00	102,468.31

- (83) For the maintenance of a printing office in the city of Washington for the printing of weather maps, bulletins, circulars, forms, and other publications, including the pay of additional employees, when necessary, \$12,800: *Provided*, That no printing shall be done by the Weather Bureau that, in the judgment of the Secretary of Agriculture, can be done at the Government Printing Office without impairing the service of said bureau (*same acts*) ----- 12,800.00

Other objects of expenditure.	Estimated, 1920.	Expended, 1918.
Stationery .....	\$10,500.00	\$10,132.21
Equipment and material .....	1,300.00	1,371.24
Miscellaneous items .....	1,000.00	1,280.28
Total .....	12,800.00	12,783.73

- (84) For necessary expenses outside of the city of Washington incident to collecting and disseminating meteorological, climatological, and marine information, and for investigations in meteorology, climatology, seismology, volcanology, evaporation, and aerology, [ \$1,312,190 ] \$1,330,150, including not to exceed [ \$672,500 ] \$695,960 for salaries, [ \$130,040 ] \$129,540 for special observations and reports, and \$295,750 for telegraphing and telephoning (*same acts*) . . 1,330,150.00

NOTE.—There is an apparent increase in the above item of \$17,960, but taking into consideration the transfer to the statutory roll of a repairman at \$960, the actual increase is \$18,920. Provision is made in the act of 1919 for \$5,000 for frost-protection investigations and \$2,000 for storm-warning equipment on the Pacific coast. Inasmuch as neither of these items will be carried in the 1920 act, the actual increase in the Weather Bureau's funds for expenses outside of Washington is \$25,920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Weather Bureau—Continued.</i>		

This amount is desired for the purpose of increasing the compensation of field employees. The salaries of the technical force of the bureau are much lower than those generally paid to men of similar training and experience. Even with the \$120 increase a very considerable number of the field employees are underpaid. At many of the bureau's field stations the men are receiving less pay than laborers, although they are charged with the responsibilities of the maintenance of important Government offices having close, intimate relations with civic, commercial, and other governmental organizations. A number of valuable men have left the service because of a lack of adequate compensation, and undoubtedly others will leave unless relief is afforded.

The frost-protection investigations, for which \$5,000 is allotted during the current fiscal year, will not be continued next year. The work already done and that which will be accomplished during this fiscal year will be sufficiently conclusive to enable the bureau to publish results of value and practical use to orchardists.

The item of \$2,000 for the installation of storm-warning equipment on the Pacific coast is omitted from the 1920 estimates as it is expected to complete this work during the present year.

*Station salaries.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Meteorologist.....per annum..	\$3,960.00	1	1
Meteorologists.....do.....	2,880.00	1	1
Meteorologists.....do.....	2,520.00	6	6
Meteorologists.....do.....	2,280.00	12	13 (1 temp.)
Meteorologists.....do.....	2,160.00	21	17
Meteorologists.....do.....	1,800.00	31	31 (2 temp.)
Meteorologists.....do.....	1,620.00	70	65 (1 temp.)
Meteorologists.....do.....	1,440.00	...	12
Meteorologists and observers.....do.....	1,440.00	93	80 (1 temp.)
Professors of meteorology.....do.....	2,520.00	2	2
District forecasters.....do.....	3,240.00	3	3
District forecaster.....do.....	2,880.00	1	1
District forecaster.....do.....	2,280.00	1	1
Observers.....do.....	1,260.00	107	101 (5 temp.)
Observers.....do.....	1,200.00	...	6 (temp.)
Observers and assistant observers.....do.....	1,080.00	9	34
Local forecaster.....do.....	1,080.00	1	1 (part time)
Local forecasters.....do.....	1,000.00	2	2 ((part time))
Section director.....do.....	1,000.00	...	1 (temp.)
Assistant observers.....do.....	1,680.00	176	137 (52 temp.)
Assistant observer.....do.....	1,000.00	...	1
Assistant observers, vessel re- porter, apprentice and messenger boys, \$900 to \$480.....do.....		32	220 (114 temp., 3 part time)
Emergency assistant observers, printers, and messenger boys.....per diem..	4.66 to 1	130 (temp.)	132 (temp.)
Wages:			
Repairman †.....per annum..	960.00	...	1
Laborers.....do.....	600.00	...	2 (temp.)
Laborers.....per diem..	3 to 1	...	4 (temp.)
		698	875
Salaries.....		\$695,960.00	\$654,387.21
Wages.....			1,555.01
Total.....		695,960.00	655,942.22

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	
<i>General Expenses, Weather Bureau—Continued.</i>			
<i>Special observations and reports.</i>			
Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
River observers, at salaries ranging from \$16 to \$1 per month, period of service varying from 3 to 12 months; average salary.....	\$75.00	478	474
Rainfall observers, at salaries ranging from \$4 to \$3 per month, period of service varying from 6 to 12 months; average salary.....	35.00	188	184
Flood-warning distributors, \$2 for each flood.....		9	9
Mountain snowfall observers, at salaries ranging from \$20 to \$3 per month, period of service varying from 6 to 12 months; average salary.....	55.00	160	159
Storm-warning displaymen, at salaries ranging from \$25 to \$4 per month, period of service varying from 6 to 12 months; average salary.....	100.00	190	188
Cattle, cotton, and other crop observers, at salaries ranging from \$25 to \$4 per month, period of service varying from 6 to 12 months; average salary.....	61.00	490	489
Special meteorological observers, at salaries ranging from \$50 to \$5 per month, period of service 12 months; average salary.....	275.00	42	42
Special marine observers, at 50 cents per observation, average salary.....	100.00	47	47
Hurricane observers, at salaries ranging from \$40 to \$11 per month, period of service varying from 5½ to 12 months; average salary.....	35.00	12	12
		1,616	1,604
Salaries.....		\$115,000.00	\$105,660.08
Other objects of expenditure:			
Equipment and material.....		8,000.00	5,838.57
Miscellaneous items.....		6,540.00	5,936.06
<b>Total.....</b>		<b>129,540.00</b>	<b>117,434.71</b>
<i>Telegraphing and telephoning.</i>			
Other objects of expenditure.	Estimated, 1920.	Expended, 1918.	
Telegraph and telephone service.....	\$295,750.00	\$237,283.84	
<i>Miscellaneous station expenses.</i>			
Other objects of expenditure.	Estimated, 1920.	Expended, 1918.	
Stationery.....	\$25,000.00	\$35,282.76	
Equipment and material.....	90,000.00	116,163.56	
Miscellaneous items.....	93,900.00	138,229.82	
<b>Total.....</b>	<b>208,900.00</b>	<b>289,676.14</b>	
(85) For official traveling expenses ( <i>acts Oct. 1, 1890, vol. 26, p. 653, secs. 4–5; Oct. 1, 1918, vol. 40, pp. 975, 976, sec. 1</i> ).....		\$26,000.00	
Other objects of expenditure.	Estimated, 1920.	Expended, 1918.	
Traveling expenses.....	\$26,000.00	\$22,597.02	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Weather Bureau—Continued.</i>		
(86) For the establishment and maintenance by the Weather Bureau of additional aerological stations, for observing, measuring, and investigating atmospheric phenomena in the aid of aeronautics, including salaries, travel, and other expenses in the city of Washington and elsewhere [§§8,740] (acts Oct. 1, 1890, vol. 26, p. 653, secs. 4-5; Oct. 1, 1918, vol. 40, pp. 975, 976, sec. 1)-----	\$85,040.00	

NOTE.—There is an apparent decrease in the above item of \$13,700, due to the transfer to the statutory roll of 4 clerks at \$1,000 each, 1 skilled mechanic at \$1,300, 10 laborers at \$720 each, and 2 laborers at \$600 each.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Meteorologist.....per annum.....	\$2,160.00	1	1
Meteorologist.....do.....	1,800.00	-	1 (temp.)
Meteorologists.....do.....	1,620.00	2	2 (1 pt. time)
Observers.....do.....	1,440.00	4	3
Observers.....do.....	1,260.00	10	9
Assistant observers.....do.....	1,080.00	8	11 (1 temp.)
Assistant observers, \$900 and \$840.....do.....	5	9 (4 temp.)	9 (4 temp.)
Clerks †.....do.....	1,000.00	--	3 (1 temp.)
Wages:			
Skilled mechanic †.....do.....	1,300.00	--	1
Skilled mechanic *.....do.....	1,260.00	--	1
Laborers *.....do.....	720.00	--	9 (5 temp.)
		30	50
Salaries.....		\$30,000.00	\$23,267.75
Wages.....			1,465.00
Other objects of expenditure:			
Traveling expenses.....		2,500.00	3,712.37
Equipment and material.....		20,000.00	32,267.17
Telegraph and telephone service.....		1,000.00	3,472.79
Miscellaneous items.....		31,540.00	35,105.71
Total.....		85,040.00	99,290.79

\* Transferred to statutory roll in agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.

- (87) [For repairing, renewing, and improving seacoast telegraph and cable lines, \$25,000].

NOTE.—The above item has been omitted as the purpose for which this appropriation was made will be accomplished during the current fiscal year.

In all, for general expenses -----	\$1,563,240.00	\$1,583,980.00
Appropriations for 1910.....\$1,277,950	Estimates for 1911.....\$1,277,110	
Appropriations for 1911.....1,293,610	Estimates for 1912.....1,283,310	
Appropriations for 1912.....1,262,080	Estimates for 1913.....1,268,330	
Appropriations for 1913.....1,278,750	Estimates for 1914.....1,310,250	
Appropriations for 1914.....1,356,750	Estimates for 1915.....1,317,000	
Appropriations for 1915.....1,340,000	Estimates for 1916.....1,379,110	
Appropriations for 1916.....1,333,150	Estimates for 1917.....1,457,400	
Appropriations for 1917.....1,411,200	Estimates for 1918.....1,512,800	
Appropriations for 1918.....1,455,240	Estimates for 1919.....1,573,980	
Appropriations for 1919.....1,583,980	Estimates for 1920.....1,563,240	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.						Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
General Expenses, Weather Bureau—Continued.							
<i>Statement of the proposed expenditures from the above appropriations for general expenses, Weather Bureau, for the fiscal year ending June 30, 1920, for the maintenance, repair, and operation of horse-drawn passenger-carrying vehicles, as required by section 5 of the act of July 16, 1914 (38 Stat., p. 508).</i>							
Bureau.	Horse-drawn or motor-propelled.	Appropriation.	For maintenance, repair, and operation.			Public purpose for which intended.	Officials and employees by whom used.
			Num-ber.	Description.	Amount.		
Weather Bureau.....	Horse-drawn.	General ex-penses, Weather Bureau.	1	Surrey.	\$175	Administrative work of bureau.	Chief and acting chief, Washington, D.C.
<i>Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).</i>							
GENERAL EXPENSES—WEATHER BUREAU.							
1 draftsman, \$1,000 per annum.							
ARMY AEROLOGICAL STATIONS—WEATHER BUREAU.							
3 clerks, at \$1,000 each per annum.							
Total for Weather Bureau-----						\$1,906, 850. 00	\$1, 912, 930. 00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
BUREAU OF ANIMAL INDUSTRY.		
<i>Salaries, Bureau of Animal Industry—</i>		
(1) One chief of bureau ( <i>R. S.</i> , p. 87, secs. 520-523; <i>acts Mar. 29, 1884</i> , vol. 23, p. 31, secs. 1-11; <i>Oct. 1, 1918</i> , vol. 40, p. 976, sec. 1) . . . . .	\$5,000.00	
(2) One chief clerk ( <i>same acts</i> ) . . . . .	2,500.00	
(3) One editor and compiler ( <i>same acts</i> ) . . . . .	2,250.00	
(4) One executive assistant ( <i>same acts</i> ) . . . . .	2,500.00	
(5) Three executive clerks, at \$2,000 each (increase of 1 by transfer from lump fund for eradicating cattle ticks) ( <i>same acts</i> ) . . . . .	6,000.00	
(6) Seven clerks, class 4 (increase of 1 by transfer from lump fund for tuberculosis eradication) ( <i>same acts</i> ) . . . . .	12,600.00	
(7) One clerk ( <i>same acts</i> ) . . . . .	1,680.00	
(8) Fourteen clerks, class 3 ( <i>same acts</i> ) . . . . .	22,400.00	
(9) One assistant in live-stock investigations ( <i>same acts</i> ) . . . . .	1,600.00	
(10) Three clerks, at \$1,500 each (increase of 1 by transfer from lump fund for meat inspection) ( <i>same acts</i> ) . . . . .	4,500.00	
(11) Thirty-four clerks, class 2 (increase of 8 by transfer from lump funds, 2 from inspection and quarantine, 2 from dairy industry, 1 from animal husbandry, 1 from eradicating hog cholera, 1 from control of viruses, serums, and toxins, and 1 from meat inspection) ( <i>same acts</i> ) . . . . .	47,600.00	
(12) Two clerks, at \$1,380 each ( <i>same acts</i> ) . . . . .	2,760.00	
(13) Three clerks, at \$1,320 each ( <i>same acts</i> ) . . . . .	3,960.00	
(14) One clerk ( <i>same acts</i> ) . . . . .	1,300.00	
(15) Two clerks, at \$1,260 each ( <i>same acts</i> ) . . . . .	2,520.00	
(16) One hundred and twenty-two clerks, class 1 (increase of 27 by transfer from lump funds, 3 from inspection and quarantine, 3 from tuberculosis eradication, 2 from eradicating cattle ticks, 7 from dairy industry, 2 from animal husbandry, 2 from poultry feeding and breeding, 1 from eradicating hog cholera, 1 from control of viruses, serums, and toxins, 1 from dourine eradication, and 5 from meat inspection) ( <i>same acts</i> ) . . . . .	146,400.00	
(17) Four clerks, at \$1,100 each (increase of 3 by transfer from lump funds, 1 from eradicating cattle ticks, 1 from animal husbandry, and 1 from eradicating hog cholera) ( <i>same acts</i> ) . . . . .	4,400.00	
(18) Six clerks, at \$1,080 each (increase of 5 by transfer from lump funds, 1 from inspection and quarantine, 1 from tuberculosis eradication, 1 from eradicating cattle ticks, 1 from dairy industry, and 1 from control of viruses, serums, and toxins) ( <i>same acts</i> ) . . . . .	6,480.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Animal Industry—Continued.</i>		
(19) Eleven clerks, at \$1,020 each (increase of 1 by transfer from lump fund for dairy industry) ( <i>R. S.</i> , p. 87, secs. 520-523; <i>acts Mar. 29, 1884, vol. 23, p. 31, secs. 1-11; Oct. 1, 1918, vol. 40, p. 976, sec. 1</i> ) -----	\$11,220.00	
(20) Sixty-five clerks, at \$1,000 each ( <i>same acts</i> )-----	65,000.00	
(21) Fourteen clerks, at \$960 each (increase of 12 by transfer from lump fund for meat inspection) ( <i>same acts</i> )-----	13,440.00	
(22) Fifty-three clerks, at \$900 each (decrease of 2 by transfer to statutory roll, Secretary's office) ( <i>same acts</i> )-----	47,700.00	
(23) One architect ( <i>same acts</i> )-----	2,000.00	
(24) One illustrator ( <i>same acts</i> )-----	1,400.00	
(25) One laboratory aid ( <i>same acts</i> )-----	1,200.00	
(26) One laboratory helper ( <i>same acts</i> )-----	1,200.00	
(27) Two laboratory helpers, at \$1,020 each ( <i>same acts</i> )-----	2,040.00	
(28) One laboratory helper ( <i>same acts</i> )-----	1,000.00	
(29) One laboratory helper ( <i>same acts</i> )-----	960.00	
(30) Two laboratory helpers, at \$840 each ( <i>same acts</i> )-----	1,680.00	
(31) One laboratory helper ( <i>same acts</i> )-----	720.00	
(32) Two laboratory helpers, at \$600 each ( <i>same acts</i> )-----	1,200.00	
(33) One laboratory helper ( <i>same acts</i> )-----	480.00	
(34) [One instrument maker, \$1,200, transferred to statutory roll, Secretary's office.]-----		
(35) One laboratory mechanician (by transfer from lump fund for meat inspection) ( <i>same acts</i> )-----	1,440.00	
(36) One carpenter ( <i>same acts</i> )-----	1,140.00	
(37) Two carpenters, at \$1,000 each ( <i>same acts</i> )-----	2,000.00	
(38) Two messengers and custodians, at \$1,200 each ( <i>same acts</i> )-----	2,400.00	
(39) One quarantine assistant ( <i>same acts</i> )-----	900.00	
(40) Two skilled laborers, at \$1,000 each (increase of 1 by transfer from lump fund for animal husbandry) ( <i>same acts</i> )-----	2,000.00	
(41) Ten skilled laborers, at \$900 each (increase of 1 by transfer from lump fund for inspection and quarantine and decrease of 1 by transfer to statutory roll, Secretary's office, making no change in number of places) ( <i>same acts</i> )-----	9,000.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1918.
<i>Salaries, Bureau of Animal Industry—Continued.</i>		
(42) One painter ( <i>R. S., p. 87, secs. 520-523; acts Mar. 29, 1884, vol. 23, p. 31, secs. 1-11; Oct. 1, 1918, vol. 40, p. 976, sec. 1</i> ) -	\$900.00	
(43) Two laborers, at \$900 each (increase of 1 by transfer from lump fund for military horse breeding) ( <i>same acts</i> ) -	1,800.00	
(44) Nine messengers, skilled laborers, or laborers, at \$840 each ( <i>same acts</i> ) -	7,560.00	
(45) Three laborers, at \$780 each ( <i>same acts</i> ) -	2,340.00	
(46) Twenty-nine messengers, skilled laborers, or laborers, at \$720 each (increase of 5 by transfer from lump funds, 2 unskilled laborers from eradicating cattle ticks, 1 unskilled laborer from dairy industry, and 2 skilled laborers from hog-cholera research) ( <i>same acts</i> ) -	20,880.00	
(47) Four laborers, at \$660 each ( <i>same acts</i> ) -	2,640.00	
(48) Twenty-four laborers, at \$600 each ( <i>same acts</i> ) -	14,400.00	
(49) Thirty-two laborers, at \$540 each ( <i>same acts</i> ) -	17,280.00	
(50) Thirty laborers, at \$480 each ( <i>same acts</i> ) -	14,400.00	
(51) One messenger boy ( <i>same acts</i> ) -	660.00	
(52) Three messenger boys, at \$600 each ( <i>same acts</i> ) -	1,800.00	
(53) Sixteen messenger boys, at \$480 each ( <i>same acts</i> ) -	7,680.00	
(54) Eight messenger boys, at \$360 each ( <i>same acts</i> ) -	2,880.00	
(55) One charwoman ( <i>same acts</i> ) -	600.00	
(56) Two charwomen, at \$540 each ( <i>same acts</i> ) -	1,080.00	
(57) Fifteen charwomen, at \$480 each (increase of 2 by transfer from lump fund for meat inspection) ( <i>same acts</i> ) -	7,200.00	
(58) Five charwomen, at \$360 each ( <i>same acts</i> ) -	1,800.00	
(59) Two charwomen, at \$300 each ( <i>same acts</i> ) -	600.00	
(60) Seven charwomen, at \$240 each ( <i>same acts</i> ) -	1,680.00	
	\$554,750.00	\$479,710.00
Appropriations for 1910..... 114,100   Estimates for 1911..... 115,920		
Appropriations for 1911..... 115,920   Estimates for 1912..... 494,070		
Appropriations for 1912..... 347,450   Estimates for 1913..... 360,430		
Appropriations for 1913..... 352,450   Estimates for 1914..... 361,500		
Appropriations for 1914..... 359,250   Estimates for 1915..... 352,410		
Appropriations for 1915..... 347,030   Estimates for 1916..... 353,630		
Appropriations for 1916..... 353,830   Estimates for 1917..... 398,470		
Appropriations for 1917..... 398,470   Estimates for 1918..... 446,970		
Appropriations for 1918..... 440,370   Estimates for 1919..... 479,710		
Appropriations for 1919..... 479,710   Estimates for 1920..... 554,720		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Animal Industry—Continued.</i>		
NOTE.—Apparent increase, \$75,040; actual decrease, \$3,900, as follows:		
<i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced.</i>		
1 executive clerk, from eradicating cattle ticks.....	\$2,000	
1 clerk, class 4, from tuberculosis eradication.....	1,800	
1 clerk, from meat inspection.....	1,500	
8 clerks, class 2, 2 from inspection and quarantine, 2 from dairy industry, 1 from animal husbandry, 1 from eradicating hog cholera, 1 from control of viruses, serums, and toxins, and 1 from meat inspection.....	11,200	
27 clerks, class 1, 3 from inspection and quarantine, 3 from tuberculosis eradication, 2 from eradicating cattle ticks, 7 from dairy industry, 2 from animal husbandry, 2 from poultry feeding and breeding, 1 from eradicating hog cholera, 1 from control of viruses, serums, and toxins, 1 from eradicating dourine, and 5 from meat inspection.....	32,400	
3 clerks, at \$1,100 each, 1 from eradicating cattle ticks, 1 from animal husbandry, and 1 from eradicating hog cholera.....	3,300	
5 clerks, at \$1,080 each, 1 from inspection and quarantine, 1 from tuberculosis eradication, 1 from eradicating cattle ticks, 1 from dairy industry, and 1 from control of viruses, serums, and toxins.....	5,400	
1 clerk, from dairy industry.....	1,020	
12 clerks, at \$960 each, from meat inspection.....	11,520	
1 laboratory mechanician, from meat inspection.....	1,440	
1 skilled laborer, from animal husbandry.....	1,000	
1 skilled laborer, from inspection and quarantine.....	900	
1 laborer, from military horse breeding.....	900	
5 laborers, at \$720 each, 2 unskilled from eradicating cattle ticks, 1 unskilled from dairy industry, and 2 skilled from hog cholera research.....	3,600	
2 charwomen, at \$480 each, from meat inspection.....	960	
	78,940	
<i>Transfers to statutory roll, Secretary's office.</i>		
2 clerks, at \$900 each.....	\$1,800	
1 instrument maker.....	1,200	
1 skilled laborer.....	900	
Actual decrease.....	3,900	
Apparent increase.....	75,040	
SUPPLEMENTAL ESTIMATE.		
<i>Promotions:</i>		
(61) 14 clerks, \$960 to \$1,000 each.....	560	
(These promotions and those which follow, affecting clerical and subclerical employees, are recommended in order that the salaries of the respective positions may conform to the minimum salary recommended for such positions, as set forth in the general note regarding minimum salaries. A number of changes in title are recommended in order clearly to indicate the character of work performed.)		
(62) 52 clerks, \$900 to \$1,000 each.....	5,200	
(See preceding note.)		
(63) 2 laboratory helpers, \$840 to \$900 each.....	120	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Animal Industry—Continued.</i>		
<i>Promotions—Continued.</i>		
(64) 1 laboratory helper, \$720 to \$900.....	\$180	
(See preceding note.)		
(65) 2 laboratory helpers, \$600 to \$900 each.....	600	
(See preceding note.)		
(66) 1 carpenter, \$1,140 to \$1,200.....	60	
(See preceding note.)		
(67) 2 carpenters, \$1,000 to \$1,200 each.....	400	
(See preceding note.)		
(68) 10 skilled laborers, \$900 to \$1,000 each.....	1,000	
(See preceding note.)		
(69) 1 painter, \$900 to \$1,200.....	300	
(See preceding note.)		
(70) 8 messengers, skilled laborers, or laborers, at \$840 each, to 8 messengers or laborers, at \$900 each.....	480	
(See preceding note.)		
(71) 1 messenger, skilled laborer, or laborer, \$840, to 1 skilled laborer, \$1,000.....	160	
(See preceding note.)		
(72) 3 laborers, at \$780 each, to 3 messengers or laborers, at \$900 each.....	360	
(See preceding note.)		
(73) 26 messengers, skilled laborers, or laborers, at \$720 each, to 26 messengers or laborers, at \$900 each.....	4,680	
(See preceding note.)		
(74) 3 messengers, skilled laborers, or laborers, at \$720 each, to 3 skilled laborers, at \$1,000 each.....	840	
(See preceding note.)		
(75) 4 laborers, at \$660 each, to 4 messengers or laborers, at \$900 each.....	960	
(See preceding note.)		
(76) 24 laborers, at \$600 each, to 24 messengers or laborers, at \$900 each.....	7,200	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Animal Industry—Continued.</i>		
<i>Promotions—Continued.</i>		
(77) 12 laborers, at \$540 each, to 12 messengers or laborers, at \$900 each ----- \$4,320  (See preceding note.)		
(78) 10 laborers, at \$480 each, to 10 messengers or laborers, at \$900 each ----- 4,200  (See preceding note.)		
(79) 8 messenger boys, \$360 to \$480 each ----- 960  (See preceding note.)		
<i>New places:</i>		
(80) 14 messengers or laborers, at \$900 each ----- 12,600  (These places are recommended in lieu of 20 laborers, at \$540 each, and 20 laborers, at \$480 each, dropped, as below. It is impossible to obtain laborers at \$540 and \$480. The changes recommended contemplate an increase in the pay of some of the present laborers and the dropping of the low-salaried places. Including 8 laborers who are being transferred from lump funds to the statutory roll, there is an increase of 22 in the number of laborers, but, inasmuch as 40 places are being dropped, there is an actual net reduction of 18 in the number of laborer positions to be carried on the statutory roll. Much of the work of this character required by the bureau is done on a per diem basis and is temporary in nature. Such temporary employees as are needed will be carried on lump funds.)	\$45,180.00	
<i>Places dropped:</i>		
(81) 20 laborers, at \$540 each ----- 10,800  (See preceding note.)		
(82) 20 laborers, at \$480 each ----- 9,600  (See preceding note.)		
(83) 1 assistant in live-stock investigations ----- 1,600  (This place is vacant. It is a technical position and should not be carried on the statutory roll. The former incumbent is now paid from a lump-sum appropriation.) ----- 22,000.00		
Net increase----- 23,180.00		
<i>Changes in title:</i>		
(84) 1 editor and compiler, \$2,250, to 1 executive clerk, \$2,250.  (This change and the one which follows is recommended in order that the titles of the positions may more clearly indicate the character of the work performed.)		
(85) 1 laboratory helper, \$480, to 1 charwoman, \$480.  (See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Bureau of Animal Industry—</i>		
(86) For carrying out the provisions of the Act approved May twenty-ninth, eighteen hundred and eighty-four, establishing a Bureau of Animal Industry, and the provisions of the Act approved March third, eighteen hundred and ninety-one, providing for the safe transport and humane treatment of export cattle from the United States to foreign countries, and for other purposes; the Act approved August thirtieth, eighteen hundred and ninety, providing for the importation of animals into the United States, and for other purposes; and the provisions of the Act of May ninth, nineteen hundred and two, extending the inspection of meats to process butter, and providing for the inspection of factories, marking of packages, and so forth; and the provisions of the Act approved February second, nineteen hundred and three, to enable the Secretary of Agriculture to more effectually suppress and prevent the spread of contagious and infectious diseases of live stock, and for other purposes; and also the provisions of the Act approved March third, nineteen hundred and five, to enable the Secretary of Agriculture to establish and maintain quarantine districts, to permit and regulate the movement of cattle and other live stock therefrom, and for other purposes; and for carrying out the provisions of the Act of June twenty-ninth, nineteen hundred and six, entitled "An Act to prevent cruelty to animals while in transit by railroad or other means of transportation;" and for carrying out the provisions of the Act approved March fourth, nineteen hundred and thirteen, regulating the preparation, sale, barter, exchange, or shipment of any virus, serum, toxin, or analogous products manufactured in the United States, and the importation of such products intended for use in the treatment of domestic animals; and to enable the Secretary of Agriculture to collect and disseminate information concerning live stock, dairy, and other animal products; to prepare and disseminate reports on animal industry; to employ and pay from the appropriation herein made as many persons in the city of Washington or elsewhere as he may deem necessary; to purchase in the open market samples of all tuberculin, serums, antitoxins, or analogous products, of foreign or domestic manufacture, which are sold in the United States, for the detection, prevention, treatment, or cure of diseases of domestic animals, to test the same, and to disseminate the results of said tests in such manner as he may deem best; to purchase and destroy diseased or exposed animals or quarantine the same whenever in his judgment essential to prevent the spread of pleuropneumonia, tuberculosis, or other diseases of animals from one State to another, as follows ( <i>acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; Oct. 1, 1918, vol. 40, pp. 976-979, sec. 1</i> ):		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Animal Industry—Continued.*

- (87) For inspection and quarantine work, including all necessary expenses for the eradication of scabies in sheep and cattle, the inspection of southern cattle, the supervision of the transportation of live stock and the inspection of vessels, the execution of the twenty-eight-hour law, the inspection and quarantine of imported animals, including the establishment and maintenance of quarantine stations and repairs, alterations, improvements, or additions to buildings thereon; the inspection work relative to the existence of contagious diseases, and the mallein testing of animals [§503,662] (acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; Oct. 1, 1918, vol. 40, pp. 976-979, sec. 1) ----- \$495,282.00

NOTE.—There is an apparent decrease in this item of \$8,380, due to the transfer to the statutory roll of 2 clerks of class 2, 3 clerks of class 1, 1 clerk at \$1,080, and 1 skilled laborer at \$900.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>			
Veterinary inspectors in charge.....per annum..	\$3,500.00	2	2
Veterinary inspectors in charge.....do.....	3,000.00	1	1 (pt. time)
Senior biochemist.....do.....	3,000.00	1	1
Senior biochemist.....do.....	2,760.00	1	1
Senior bacteriologists.....do.....	2,790.00	2	2
Veterinary inspectors.....do.....	2,730.00	2	2
Veterinary inspectors.....do.....	2,727.00	2	2
Veterinary inspectors.....do.....	2,610.00	3	3
Veterinary inspector.....do.....	2,550.00	1	1
Veterinary inspector.....do.....	2,547.00	1	1
Veterinary inspectors.....do.....	2,500.00	2	2
Veterinary inspectors.....do.....	2,490.00	1	2
Veterinary inspectors.....do.....	2,460.00	-----	2 (1 pt. time)
Veterinary inspectors.....do.....	2,415.00	1	2 (1 pt. time)
Veterinary inspector.....do.....	2,310.00	1	1
Veterinary inspector.....do.....	2,235.00	1	1
Veterinary inspector.....do.....	2,250.00	1	1
Veterinary inspector.....do.....	2,220.00	2	3
Veterinary inspectors.....do.....	2,100.00	2	2
Veterinary inspectors.....do.....	2,040.00	3	2
Veterinary inspector.....do.....	2,000.00	1	1
Veterinary inspector.....do.....	1,980.00	1	1
Veterinary inspectors.....do.....	1,800.00	50	48 (2 pt. time)
Veterinary inspectors.....do.....	1,740.00	7	7 (2 pt. time)
Veterinary inspectors.....do.....	1,620.00	20	7 (1 pt. time)
Veterinary inspector.....do.....	1,600.00	1	1
Veterinary inspector.....do.....	1,560.00	1	1
Veterinary inspectors.....do.....	1,500.00	16	46 (10 part time)
Lay inspectors, grade 2.....do.....	1,980.00	3	3
Lay inspector, grade 1.....do.....	1,820.00	1	1
Lay inspector, grade 1.....do.....	1,776.00	1	1
Lay inspector, grade 1.....do.....	1,600.00	1	1
Lay inspector, grade 2.....do.....	1,400.00	1	1
Lay inspectors, grade 2.....do.....	1,200.00	55	74 (19 part time)
Lay inspectors, grade 1.....do.....	1,200.00	1	1
Lay inspectors, grade 2.....do.....	1,000.00	3	3
Lay inspectors, grade 1.....do.....	1,000.00	9	15 (6 pt. time)
Assistant in biochemistry.....do.....	1,800.00	1	1
Inspectors assistant and live-stock agent.....do.....	1,800.00	1	1
Inspector's assistant and live-stock agent.....do.....	1,400.00	1	1
Junior chemist.....do.....	1,440.00	1	1
Live stock inspector.....do.....	1,400.00	1	1
Live stock inspector.....do.....	1,200.00	1	1
Agent.....do.....	1,390.00	1	1
Agents.....do.....	1,369.00	3	3
Agent.....do.....	1,200.00	1	1
Agents.....do.....	1,000.00	2	2
Assistant bacteriologist.....do.....	1,200.00	1	1
Special agent.....do.....	1,200.00	1	1
Power plant operator.....do.....	1,200.00	1	1
Chemist's aid.....do.....	1,020.00	1	1
Clerk *.....do.....	1,800.00	..	1
Clerks *.....do.....	1,400.00	..	2

\*Recommended for transfer to statutory roll—in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.		
<i>General Expenses, Bureau of Animal Industry—Continued.</i>				
<i>Inspection and quarantine—Continued.</i>				
	Employees.	Rate.	Estimated, 1920.	Expended. 1918.
			Number.	Number.
Salaries—Continued.				
Clerks *..... per annum..	\$1,200.00	..	2	
Clerks †.....do.....	1,200.00	..	6	
Clerks †.....do.....	1,080.00	..	2	
Clerk.....do.....	1,020.00	..	1 (temp.).	
Clerk *.....do.....	1,000.00	..	1	
Lay inspector, assistant microscop- ist, collaborating veterinarian, agents, clerks, messenger boys, and student assistant, \$960 to \$5.....do.....		28	31 (2 temp.; 2 part time).	
Veterinary inspectors.....per diem..	10.00	2	2	
Agent.....do.....	6.00	2	2	
Agent.....do.....	5.00	1	1	
Wages:				
Skilled laborer †.....per annum..	900.00	..	1	
Laborers.....do.....	720.00	2 (temp.).	3 (temp.).	
		254	317	
Salaries.....		\$379,060.00	\$435,727.58	
Wages.....		1,080.00	2,520.00	
Other objects of expenditure:				
Traveling expenses.....		75,000.00	87,754.41	
Equipment and material.....		20,000.00	30,009.50	
Miscellaneous items.....		20,142.00	26,121.29	
Total.....		495,282.00	582,132.78	

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.

- (88) For investigating the disease of tuberculosis of animals, for its control and eradication, for the tuberculin testing of animals, and for researches concerning the cause of the disease, its modes of spread, and methods of treatment and prevention, including demonstrations, the formation of organizations, and such other means as may be necessary, either independently or in cooperation with farmers, associations, State or county authorities, [[\$500,000]] \$493,520: *Provided, however,* That in carrying out the purpose of this appropriation, if in the opinion of the Secretary of Agriculture, it shall be necessary to destroy tuberculous animals and to compensate owners for loss thereof, he may, in his discretion, expend in the city of Washington or elsewhere out of the moneys of this appropriation, such sums as he shall determine to be necessary for the reimbursement of owners of animals so destroyed, in cooperation with such States, counties, or municipalities, as shall by law or by suitable action in keeping with its authority in the matter, and by rules and regulations adopted and enforced in pursuance thereof, provide inspection of tuberculous animals and for compensation to owners of animals so destroyed, but no part of the money hereby appropriated shall be used in compensating owners of such animals except in cooperation with and supplementary to payments to be made by State, county, or municipality where destruction of such animals shall take place; nor shall any payment be made hereunder as compensation for or on account of any such animal destroyed if at the time of inspection or test of such animal or at the time of [destruction] condemnation thereof, it shall belong to or be upon the premises of any person, firm, or corporation, to which it has been sold, shipped, or delivered for the purpose of being slaughtered: *Provided further,* That out of the money hereby appropriated, no payment as compensation for any tuberculous animal destroyed shall exceed one-third of the difference between the appraised value of such animal and the value of the salvage thereof; that no payment hereunder shall exceed the amount paid or to be



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																												
<i>General Expenses, Bureau of Animal Industry—Continued.</i>																																																																																																														
paid by the State, county, or municipality, where the animal shall be [destroyed] condemned; and that in no case shall any payment hereunder be more than \$25 for any grade animal or more than \$50 for any pure-bred animal, and no payment shall be made unless the owner has complied with all lawful quarantine regulations: <i>And provided further</i> , That the Act approved May twenty-ninth, eighteen hundred and eighty-four (Twenty-third Statutes at Large, page thirty-one), be, and the same is hereby, amended to permit cattle which have reacted to the tuberculin test to be shipped, transported, or moved from one State, Territory, or the District of Columbia, to any other State, Territory, or the District of Columbia, for immediate slaughter, in accordance with such rules and regulations as shall be prescribed by the Secretary of Agriculture: <i>And provided further</i> , That the Secretary of Agriculture may, in his discretion, and under such rules and regulations as he may prescribe, permit cattle which have been shipped for breeding or feeding purposes from one State, Territory, or the District of Columbia, to another State, Territory, or the District of Columbia, and which have reacted to the tuberculin test subsequent to such shipment, to be reshipped in interstate commerce to the original owner ( <i>acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; Oct. 1, 1918, vol. 40, pp. 976-979, sec. 1</i> )—\$493,520.00																																																																																																														
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Two slight corrections in the language of this paragraph are proposed, the words "condemnation" and "condemned" being substituted for "destruction" and "destroyed." Under the present wording of the law the animals actually must be destroyed in the same State, county, or municipality where found diseased. By substituting the words "condemnation" and "condemned" the law would permit the movement of diseased animals to recognized slaughtering centers in other States for slaughter. This was the intention of the department in submitting its previous recommendation relative to this appropriation.																																																																																																														
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\* No appropriation for fiscal year 1918.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	
<i>General Expenses, Bureau of Animal Industry—Continued.</i>			
(89) For all necessary expenses for the eradication of southern cattle ticks, [§750,000] \$741,980, of which sum \$50,000 may be used for live stock and dairy demonstration work, in cooperation with the States Relations Service, and of this amount no part shall be used in the purchase of animals: <i>Provided, however,</i> That no part of this appropriation shall be used in the purchase of materials for or in the construction of dipping vats upon land not owned solely by the United States, except at fairs or expositions where the Department of Agriculture makes exhibits or demonstrations; nor shall any part of this appropriation be used in the purchase of materials or mixtures for use in dipping vats except in experimental or demonstration work carried on by the officials or agents of the Bureau of Animal Industry (acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; Oct. 1, 1918, vol. 40, pp. 976-979, sec. 1) . . . \$741,980.00			
NOTE.—There is an apparent decrease in this item of \$8,020, due to the transfer to the statutory roll of 1 executive clerk at \$2,000, 2 clerks of class one, 1 clerk at \$1,100, 1 clerk at \$1,080, and 2 messengers or laborers at \$720 each.			
<i>Eradicating cattle ticks.</i>			
Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Chief, tick eradication division.....per annum..	\$3,500.00	1(part time)	1(part time)
Veterinary inspector.....do....	2,750.00	1(part time)	1(part time)
Veterinary inspectors.....do....	2,730.00	6(part time)	6(part time)
Veterinary inspectors.....do....	2,667.00	2(part time)	2(part time)
Veterinary inspectors.....do....	2,610.00	5(part time)	5(part time)
Veterinary inspector.....do....	2,550.00	1(part time)	1(part time)
Veterinary inspectors.....do....	2,547.00	4(part time)	4(part time)
Veterinary inspectors.....do....	2,541.00	9(part time)	9(part time)
Veterinary inspectors.....do....	2,520.00	2(part time)	2(part time)
Veterinary inspector.....do....	2,500.00	1(part time)	1(part time)
Veterinary inspectors.....do....	2,460.00	3(part time)	3(part time)
Veterinary inspectors.....do....	2,421.00	10(part time)	10(part time)
Veterinary inspectors.....do....	2,415.00	27(part time)	27(part time)
Veterinary inspector.....do....	2,340.00	1(part time)	1(part time)
Veterinary inspectors.....do....	2,331.00	3(part time)	3(part time)
Veterinary inspectors.....do....	2,295.00	33(part time)	33(part time)
Veterinary inspector.....do....	2,280.00	1(part time)	1(part time)
Veterinary inspector.....do....	2,241.00	1(part time)	1(part time)
Veterinary inspectors.....do....	2,235.00	5(part time)	5(part time)
Veterinary inspectors.....do....	2,220.00	5(part time)	5(part time)
Veterinary inspectors.....do....	2,205.00	6(part time)	6(part time)
Veterinary inspectors.....do....	2,160.00	4(part time)	4(part time)
Veterinary inspector.....do....	2,145.00	1(part time)	1(part time)
Veterinary inspector.....do....	2,115.00	1(part time)	1(part time)
Veterinary inspector.....do....	1,980.00	1(part time)	1(part time)
Veterinary inspectors.....do....	1,920.00	3(part time)	3(part time)
Veterinary inspectors.....do....	1,860.00	2(part time)	2(part time)
Veterinary inspector.....do....	1,840.00	1(part time)	1(part time)
Veterinary inspectors.....do....	1,800.00	14(part time)	14(part time)
Veterinary inspectors.....do....	1,740.00	9(part time)	9(part time)
Veterinary inspector.....do....	1,720.00	1(part time)	1(part time)
Veterinary inspectors.....do....	1,620.00	15(part time)	15(part time)
Veterinary inspectors.....do....	1,600.00	16(part time)	16(part time)
Veterinary inspectors.....do....	1,500.00	22(part time)	30(part time)
Agent.....do....	1,740.00	1 (temp.)	1 (temp.)
Agents.....do....	1,720.00	39(temp.)	39(temp.)
Agents.....do....	1,680.00	3 (temp.)	3 (temp.)
Agent.....do....	1,660.00	1 (temp.)	1 (temp.)
Agents.....do....	1,630.00	7 (temp.)	7 (temp.)
Agents.....do....	1,620.00	16 (temp.)	16 (temp.)
Agent.....do....	1,510.00	1 (temp.)	1 (temp.)
Agents.....do....	1,500.00	12 (temp.)	12 (temp.)
Agents.....do....	1,480.00	3 (temp.)	3 (temp.)
Agent.....do....	1,440.00	1 (temp.)	1 (temp.)
Agents.....do....	1,420.00	3 (temp.)	3 (temp.)
Agents.....do....	1,380.00	2 (temp.)	2 (temp.)



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Animal Industry—Continued.**Eradicating cattle ticks—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
SALARIES—Continued.			
Agents.....per annum..	\$1,360.00	Number. 6 (temp.)	Number. 6 (temp.)
Agents.....do.....	1,320.00	5 (temp.)	5 (temp.)
Agent.....do.....	1,300.60	1 (temp.)	1 (temp.)
Agents.....do.....	1,260.00	4 (temp.)	4 (temp.)
Agents.....do.....	1,200.00	85 (temp.)	85 (temp.)
Agent.....do.....	1,140.00	1	1 (temp.)
Agent.....do.....	1,080.00	4 (temp.)	4 (temp.)
Agents.....do.....	1,000.00	3 (temp.)	3 (temp.)
Clerk.....do.....	2,000.00	..	1 (parttime)
Clerks †.....do.....	1,200.00	..	2
Clerks *.....do.....	1,200.00	..	5
Lay inspector, grade 2.....do.....	1,200.00	3	3 (temp.)
Clerk †.....do.....	1,100.00	..	1
Clerk †.....do.....	1,080.00	..	1
Clerk.....do.....	1,000.00	..	1 (parttime)
Lay inspector, grade 1.....do.....	1,000.00	1 (parttime)	1 (parttime)
Lay inspector, agents, clerks, and collaborating veterina- rian, \$960 to \$5.....do.....	12 (10 temp., 2 part time).	15 (5 part time, 10 temp.).	
WAGES:			
Unskilled laborers.....do.....	720.00	..	2 (parttime)
		431	449
Salaries.....		\$517,360.00	\$443,715.35
Wages.....			1,080.00
OTHER OBJECTS OF EXPENDITURE:			
Stationery.....	2,000.00		1,872.24
Traveling expenses.....	135,000.00		100,537.14
Equipment and material.....	10,000.00		7,325.70
Telephone and telegraph service.....	1,500.00		1,246.30
Miscellaneous items.....	26,120.00		23,555.71
TOTAL.....	691,980.00		579,332.44

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.

*Live-stock demonstrations.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Agent in animal husbandry..per annum..	\$2,000.00	1	1
Agent in animal husbandry.....do.....	1,620.00	1	1
Agents in animal husbandry.....do.....	1,320.00	2	2
Agent in animal husbandry.....do.....	1,280.00	1	1
Agent in animal husbandry.....do.....	1,200.00	1	1
Dairy manufacturing special- ist.....do.....	1,920.00	1	1
Animal husbandmen.....do.....	1,800.00	2	2
Assistant dairy husbandman.....do.....	1,620.00	1	1
Assistant dairy husbandman.....do.....	1,500.00	1	1
Assistant dairy husbandman.....do.....	1,320.00	1	1
Scientific assistant in animal husbandry.....do.....	1,500.00	1	1
Scientific assistant in animal husbandry.....do.....	1,380.00	1	1
Agent in dairying.....do.....	1,500.00	1	1
Agent in dairying.....do.....	1,320.00	1	1
Agent in dairying.....do.....	1,200.00	1	1
Agent in dairying.....do.....	1,140.00	1	1
Agent in dairying.....do.....	1,100.00	1	1
Agent in dairying.....do.....	1,000.00	1	1
Scientific assistant in dairying.....do.....	1,320.00	1	1
Scientific assistant in dairying.....do.....	1,200.00	1	1
Extension animal husband- man.....do.....	1,200.00	1	1
Scientific assistant in dairy- ing, agent in animal hus- bandry and assistant dairy husbandman, \$900 to \$360.....do.....		3	3
		26	26
Salaries.....		\$34,660.00	\$27,050.65
Other objects of expenditure:			
Traveling expenses.....	12,240.00		14,811.37
Equipment and material.....	1,500.00		1,991.16
Miscellaneous items.....	1,600.00		2,483.15
TOTAL.....	50,000.00		46,336.33



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Animal Industry—Continued.*

(90) For all necessary expenses for investigations and experiments in dairy industry, cooperative investigations of the dairy industry in the various States, inspection of renovated-butter factories and markets [§364,390] (acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; Oct. 1, 1918, vol. 40, pp. 976-979, sec. 1) ... \$350,370.00

NOTE.—There is an apparent decrease in this item of \$14,020, due to the transfer to the statutory roll of 2 clerks of class 2, 7 clerks of class 1, 1 clerk at \$1,080, 1 clerk at \$1,020, and 1 unskilled laborer at \$720.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Chief, dairy division.....per annum..	\$1,000.00	1	1
Dairy expert.....do.....	3,750.00	1	1
Dairy bacteriologist.....do.....	3,240.00	1	1
Dairy bacteriologist.....do.....	2,460.00	1	1
Dairy bacteriologist.....do.....	2,200.00	1	1
Dairy bacteriologist.....do.....	1,800.00	2	2
Dairy bacteriologist.....do.....	1,500.00	1	1
Physiologist.....do.....	3,000.00	1	1
Specialist in dairy cattle breeding ..do.....	3,000.00	1	1
Dairy husbandman.....do.....	2,880.00	1	1
Dairy husbandman.....do.....	2,700.00	1	1
Dairy husbandman.....do.....	2,580.00	..	1
Dairy husbandman.....do.....	2,460.00	..	1
Dairy husbandman.....do.....	2,409.00	1	2
Dairy husbandman.....do.....	2,340.00	1	2
Dairy husbandman.....do.....	2,280.00	1	1
Dairy husbandman.....do.....	2,180.00	1	1
Dairy husbandman.....do.....	2,100.00	2	2
Dairy husbandman.....do.....	1,980.00	1	1
Dairy husbandman.....do.....	1,800.00	1	1
Dairy husbandman.....do.....	1,740.00	1	1
Dairy husbandman.....do.....	1,650.00	1	1
Dairy husbandman.....do.....	1,620.00	1	1
Dairy husbandman.....do.....	1,500.00	5	5
Dairy husbandman.....do.....	1,440.00	1	1
Dairy husbandman.....do.....	1,380.00	2	2
Dairy husbandman.....do.....	1,200.00	2	2
Dairy manufacturing specialist.....do.....	2,700.00	1	1
Dairy manufacturing specialist.....do.....	2,280.00	1	1
Dairy manufacturing specialists.....do.....	2,220.00	3	3
Dairy manufacturing specialist.....do.....	2,100.00	1	1
Dairy manufacturing specialist.....do.....	2,040.00	1	1
Dairy manufacturing specialists.....do.....	1,980.00	4	4
Dairy manufacturing specialists.....do.....	1,800.00	3	3
Dairy manufacturing specialists.....do.....	1,620.00	2	2
Dairy manufacturing specialists.....do.....	1,500.00	2	2
Market milk specialists.....do.....	2,640.00	2	2
Market milk specialists.....do.....	2,340.00	1	1
Market milk specialist.....do.....	2,220.00	..	1
Market milk specialist.....do.....	1,980.00	1	1
Market milk specialist.....do.....	1,800.00	1	1
Dairy chemist.....do.....	2,520.00	1	1
Dairy chemist.....do.....	1,980.00	1	1
Dairy chemist.....do.....	1,920.00	1	1
Dairy chemist.....do.....	1,620.00	1	1
Dairy technologist.....do.....	2,520.00	1	1
Agriculturist.....do.....	2,520.00	1	1
Agent in dairying.....do.....	2,500.00	1	1
Agent in dairying.....do.....	2,040.00	1	2
Agent in dairying.....do.....	1,980.00	1	1
Agent in dairying.....do.....	1,900.00	1	1
Agent in dairying.....do.....	1,740.00	1	1
Agent in dairying.....do.....	1,500.00	11	11
Agent in dairying.....do.....	1,400.00	1	1
Agent in dairying.....do.....	1,350.00	1	1
Agent in dairying.....do.....	1,320.00	1	1
Agent in dairying.....do.....	1,300.00	1	1
Agent in dairying.....do.....	1,250.00	2	2
Agent in dairying.....do.....	1,200.00	7	7
Agent in dairying.....do.....	1,000.00	1	1
Organic chemist.....do.....	2,220.00	1	1
Physiological chemist.....do.....	2,220.00	1	1
Veterinary inspector.....do.....	2,040.00	1	1
Dairy engineer.....do.....	2,040.00	1	1
Assistant in dairy cattle breeding..do.....	2,000.00	1	1
Assistant in dairy cattle breeding..do.....	1,800.00	1	..
Assistant in organic chemistry.....do.....	1,800.00	1	1
Bacteriologist.....do.....	1,800.00	1	1
Assistant market milk specialists..do.....	1,740.00	4	4
Assistant market milk specialist..do.....	1,620.00	1	1
Assistant market milk specialists..do.....	1,500.00	4	4



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.		
<i>General Expenses, Bureau of Animal Industry—Continued.</i>				
<i>Dairy Industry—Continued.</i>				
	Employees.	Rate.	Estimated, 1920.	Expended, 1918.
			Number.	Number.
Salaries—Continued.				
Assistant dairy husbandmen..per annum..	1,620.00	4	4	
Assistant dairy husbandman.....do.....	1,500.00	1	1	
Assistant dairy husbandmen.....do.....	1,320.00	2	2	
Assistant dairy husbandman.....do.....	1,250.00	1	1	
Cheesemaker.....do.....	1,620.00	1	1	
Cheesemaker.....do.....	1,320.00	1	1	
Scientific assistant in dairying.....do.....	1,560.00	1	1	
Scientific assistant in dairying.....do.....	1,440.00	2	2	
Scientific assistants in dairying.....do.....	1,400.00	3	3	
Scientific assistant in dairying.....do.....	1,200.00	1	1	
Assistant dairy manufacturing specialist.....do.....	1,500.00	1	1	
Assistant dairy manufacturing specialists.....do.....	1,440.00	2	2	
Assistant dairy manufacturing specialist.....do.....	1,400.00	1	1	
Senior dairy herdsman.....do.....	1,500.00	1	1	
Assistant in dairy manufacturing.....do.....	1,500.00	1	1	
Scientific assistant chemist.....do.....	1,440.00	1	1	
Junior chemist.....do.....	1,440.00	1	1	
Clerk.....do.....	1,260.00	...	1 (temp.)	
†Clerks.....do.....	1,400.00	...	2	
†Clerks.....do.....	1,200.00	...	7	
*Clerks.....do.....	1,200.00	...	6	
†Clerk.....do.....	1,080.00	...	1	
†Clerk.....do.....	1,020.00	...	1	
*Clerks.....do.....	1,000.00	...	3	
Junior bacteriologist.....do.....	1,200.00	1	1	
†Assistant engineer.....do.....	1,200.00	...	1	
Expert in animal nutrition.....do.....	1,000.00	1	1	
Assistant experts in animal nutrition.....do.....	1,000.00	2	2	
Agents in dairying, assistant dairy husbandman, and agents in animal nutrition, \$864 to \$150.....do.....	480.00	9	9	
*Messenger boys.....do.....	10.00	...	2	
Dairy expert.....per diem.....	6.67	1	1	
Dairy husbandman.....do.....	5.00	1	1	
Dairy manufacturing specialist.....do.....	720.00	...	1	
Wages:				
†Skilled laborer.....per annum.....	12,146.00	2 (temp.)	2 (temp.)	
Unskilled laborers, \$720 and \$660.....do.....	12,146.00	2 (temp.)	2 (temp.)	
Unskilled laborers, \$70 to \$65.....per month.....	12,146.00	12 (temp.)	12 (temp.)	
Laborers, \$4.50 to \$1.50.....per diem.....	12,146.00	3 (temp.)	3 (temp.)	
Carpenters, \$4.50 to \$3.50.....do.....	12,146.00	190	197	
Salaries.....	\$247,430.00	\$239,133.66		
Wages.....	12,146.00	12,573.00		
Other objects of expenditure:				
Stationery.....	2,000.00	1,505.16		
Traveling expenses.....	49,000.00	55,954.65		
Equipment and material.....	12,000.00	15,688.41		
Miscellaneous items.....	27,794.00	40,962.96		
Total.....	350,370.00	365,817.84		

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Bureau of Animal Industry—Continued.</i>		
(91) For all necessary expenses for investigations and experiments in animal husbandry; for experiments in animal feeding and breeding, including cooperation with the State agricultural experiment stations, including repairs and additions to and erection of buildings absolutely necessary to carry on the experiments, including the employment of labor in the City of Washington and elsewhere, rent outside of the District of Columbia, and all other necessary expenses, [§308,680] §316,960: <i>Provided</i> , That of the sum thus appropriated [§37,840] §36,940 may be used for experiments in the breeding and maintenance of horses for military purposes: <i>Provided further</i> , That of the sum thus appropriated [§61,040] §58,640 may be used for experiments in poultry feeding and breeding: <i>Provided further</i> , That of the sum thus appropriated \$8,000 may be used for the equipment of the United States sheep experiment station in Fremont County, Idaho, including repairs and additions to and the erection of necessary buildings to furnish facilities for the investigation of problems pertaining to the sheep and wool industry on the farms and ranges of the Western States (acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; Oct. 1, 1918, vol. 40, pp. 976-979, sec. 1) -----	\$316,960.00	

NOTE.—There is an apparent increase in the above item of \$8,280, but taking into consideration the transfer to the statutory roll of 1 clerk of class 2, 4 clerks of class 1, 1 clerk at \$1,100, 1 laborer at \$1,000, and 1 laborer at \$900, aggregating \$9,200, the actual increase is \$17,480. It is proposed to expend this amount as follows:

(a) \$8,200 for farm sheep investigations. An extension of the farm sheep industry is desirable in the interest of the Nation's supply of wool and as an aid to more productive and more economical farm practice. Special efforts will need to be put forth to stabilize the sheep industry and as far as possible retain the increased development resulting from war conditions. Very little experimental data are obtainable from State experiment stations on methods of sheep raising. In the South and East relatively little attention has been given to the question by State institutions. These regions have their own peculiar problems, which require study before the safest and most economical methods of management can be presented for the adjustment of the sheep industry to the natural conditions and to other well-established lines of production. To a large extent the same conditions prevail with respect to sheep raising in the Western States, where sheep production until recently has been exclusively a specialized ranching business. The bureau's investigations are now limited to two flocks, comprising 200 head, kept at Middlebury, Vt., and Beltsville, Md. The increase requested will suffice to procure the services of two men qualified to supervise experiments and to supply necessary stock and equipment and to meet expenses of instituting work at two additional points in the South and West.

(b) \$9,280 for range sheep investigations. This increased appropriation will make possible a greater utilization of the facilities at the United States sheep experiment station in Idaho and enable the department to conduct studies of wool production. The cost of feed for 1,200 sheep for the current fiscal year is estimated at \$7,000. Not less than 2,000 sheep should be kept at this station, and with this increased number the cost of feed will be correspondingly higher. It is desirable to have the work at the station on a sufficiently large scale to be representative of range practice. With the increase requested, the total allotment for the sheep experiment station for next year will be \$30,000. The present appropriation includes \$8,000 for the equipment of the sheep station, "including repairs and additions to and the erection of necessary buildings." It is proposed to use the remainder of the allotment for maintenance expenses. In this connection, it should be pointed out that an increasing amount of revenue is obtained from the station from the sale of wool and sheep. The sales of the past fiscal year amounted to more than \$10,000.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.		
<i>General Expenses, Bureau of Animal Industry—Continued.</i>				
<i>Animal husbandry.</i>				
	Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>			<i>Number.</i>	<i>Number.</i>
Chief Animal Husbandry Division.....per annum..	\$4,000.00	1	1	
Specialist in animal husbandry.....do.....	3,500.00	1	1	
Senior animal husbandman.....do.....	3,000.00	1	1	
Senior animal husbandman.....do.....	2,750.00	1 (new)	1	
Senior animal husbandman.....do.....	2,160.00	1	1	
Senior animal husbandman.....do.....	2,000.00	1	1	
Scientific assistant in animal husbandry.....do.....	2,400.00	1 (new)	..	
Scientific assistant in animal husbandry.....do.....	2,200.00	1 (new)	..	
Scientific assistant in animal husbandry.....do.....	2,000.00	7 (new)	..	
Scientific assistant in animal husbandry.....do.....	1,680.00	1	1	
Scientific assistant in animal husbandry.....do.....	1,500.00	2	2	
Scientific assistant in animal husbandry.....do.....	1,380.00	16	16	
Scientific assistant in animal husbandry.....do.....	1,260.00	1	1	
Senior animal husbandman in beef cattle investigations.....do.....	2,100.00	1	1	
Animal husbandman.....do.....	2,000.00	1	1	
Animal husbandman.....do.....	1,800.00	4	4	
Animal husbandman.....do.....	1,620.00	2	2	
Animal husbandman.....do.....	1,380.00	1	1	
Agents in animal husbandry.....do.....	2,000.00	2 (new)	..	
Agent in animal husbandry.....do.....	1,800.00	7	7	
Agent in animal husbandry.....do.....	1,620.00	1	1	
Agent in animal husbandry.....do.....	1,600.00	1	1	
Agent in animal husbandry.....do.....	1,500.00	5	5	
Agent in animal husbandry.....do.....	1,200.00	3	3	
Agent in animal husbandry.....do.....	1,100.00	1	1	
Agents in animal husbandry —\$690 and \$500.....do.....	2	2		
Live stock assistant.....do.....	1,920.00	1	1	
Live stock assistant.....do.....	1,380.00	1	1	
Extension animal husbandman.....do.....	1,800.00	1	1	
Junior animal husbandman.....do.....	1,740.60	1	1	
Junior animal husbandman.....do.....	1,620.00	1	1	
Scientific assistant in beef cattle investigations.....do.....	1,380.00	1	1	
Scientific assistant in wool investigations.....do.....	1,380.00	1	1	
Expert groom.....do.....	1,260.00	1	1	
Lay inspector, grade 2.....do.....	1,200.00	1	1	
Assistant in horse breeding.....do.....	1,260.00	1	1	
Clerk†.....do.....	1,460.00	..	1	
Clerks*.....do.....	1,200.00	..	2	
Clerk†.....do.....	1,260.00	..	1	
Appraiser in animal husbandry per diem.....	10.00	2	2	
Expert in animal husbandry.....do.....	9.00	1	1	
<b>Wages:</b>				
Unskilled laborer†.....per annum.....	1,000.00	..	1	
Unskilled laborers.....do.....	1,000.00	7 (new)	..	
Teamsters, \$900 and \$720.....do.....	..	2 (temp.)	2 (temp.)	
Unskilled laborers—\$90 to \$25 per month.....	..	11 (temp.)	11 (temp.)	
Unskilled laborers—\$2.40 and \$2. per diem.....	..	5 (temp.)	5 (temp.)	
		104	90	
<b>Salaries.....</b>	\$116,632.00	\$95,220.33		
<b>Wages.....</b>	13,791.00	8,541.00		
<b>Other objects of expenditure:</b>				
Traveling expenses.....	17,500.00	17,865.08		
Equipment and material.....	22,000.00	14,595.13		
Telephone and telegraph service.....	1,500.00	1,231.74		
Miscellaneous items.....	41,957.00	43,134.80		
<b>Total.....</b>	213,380.00	180,588.08		

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Animal Industry—Continued.**Military horse breeding.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Animal husbandman.....per annum..	\$2,000.00	1	1(part time)
Veterinary inspector.....do.....	2,040.00	1	1(part time)
Foremen in horse breeding.....do.....	900.00	3	3(part time)
Agents in animal husbandry.....per diem..	9.00	3 (temp.)	3(temp.)
Wages:			
Unskilled laborer.....per annum..	1,500.00	1 (temp.)	1(part time)
Unskilled laborers.....do.....	1,200.00	2 (temp.)	2(part time)
Unskilled laborers.....do.....	1,020.00	2 (temp.)	2(part time)
Unskilled laborers, \$960 to \$300.....do.....	15(temp.new)	13(temp.)	
†Unskilled laborer.....do.....	900.00	..	1
†Unskilled laborer.....do.....	780.00	..	1
Unskilled laborer.....per month..	9.00	1 (temp.)	1 (temp.)
		29	27
Salaries.....		\$12,440.00	\$8,240.00
Wages.....		10,270.00	4,062.46
Other objects of expenditure:			
Traveling expenses.....		1,800.00	1,297.24
Equipment and material.....		300.00	282.43
Miscellaneous items.....		12,130.00	11,341.87
Total.....		36,940.00	25,224.00

†Recommended for transfer to statutory roll in estimate for 1920.

*Poultry feeding and breeding.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Senior animal husbandman..per annum..	\$2,760.00	1	1(part time)
Scientific assistants in poultry husbandry.....do.....	1,800.00	4	-----
Scientific assistants in animal husbandry.....do.....	1,740.00	1	1(part time)
Scientific assistants in poultry husbandry.....do.....	1,500.00	2	2 (1 part time).
Scientific assistant in poultry husbandry.....do.....	1,440.00	1	1
Animal husbandman.....do.....	1,800.00	1	1(part time)
Expert in poultry husbandry.....do.....	1,740.00	1	1
Junior animal husbandman.....do.....	1,740.00	1	1(part time)
Junior animal husbandman.....do.....	1,380.00	1	1(part time)
Poultry husbandman.....do.....	1,620.00	1	1(part time)
Extension poultry husbandman.....do.....	1,500.00	1	1(part time)
Agents in poultry husbandry.....do.....	1,500.00	2	2(part time)
Agents in animal husbandry.....do.....	1,500.00	4	4(2 part time)
Agents in animal husbandry.....do.....	1,380.00	2	2
Assistant in incubation breeding.....do.....	1,200.00	1	1
Assistant poultry club agent.....do.....	300.00	1	1
†Clerks.....do.....	1,200.00	..	2
*Clerk.....do.....	1,200.00	..	1
Wages:			
Unskilled laborers.....do.....	1,000.00	2 (new)	..
Unskilled laborers.....do.....	540.00	2 (temp.)	2 (temp.)
Unskilled laborer.....per month..	125.00	1 (temp.)	1 (temp.)
		30	27
Salaries.....		\$39,520.00	\$24,550.82
Wages.....		3,435.00	1,935.00
Other objects of expenditure:			
Traveling expenses.....		5,000.00	3,122.71
Equipment and material.....		7,400.00	3,395.23
Miscellaneous items.....		12,285.00	10,840.42
Total.....		58,640.00	43,344.18

\*Transferred to statutory roll in agricultural act for 1919.

*Equipping sheep station.*

Other objects of expenditure.	Estimated, 1920.	Expended, 1918.
Equipment and material.....	\$8,000.00	\$7,009.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	
<i>General Expenses, Bureau of Animal Industry—Continued.</i>			
(92) For all necessary expenses for scientific investigations in diseases of animals, including the maintenance and improvement of the bureau experiment station at Bethesda, Maryland, and the necessary alterations of buildings thereon, and the necessary expenses for investigations of tuberculin, serums, antitoxins, and analogous products, \$124,560: <i>Provided</i> , That of said sum \$49,400 may be used for researches concerning the cause, modes of spread, and methods of treatment and prevention of the disease of contagious abortion of animals ( <i>acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; Oct. 1, 1918, vol. 40, pp. 976-979 sec. 1</i> ) . . . \$124,560.00			
<i>Diseases of animals.</i>			
Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
<b>Salaries:</b>			
Chief of zoological division...per annum..	\$3,500.00	1	1
Superintendent of experiment station.....	3,500.00	1	1
do.....	3,180.00	1	1
Veterinary inspector.....	2,250.00	1	1
Veterinary inspector.....	1,800.00	1	1
Veterinary inspector.....	1,600.00	1	1
Veterinary inspector.....	1,500.00	1	1
Assistant chief, patholigical division.....	2,880.00	1	1
Physiologist in poisonous plant investigations.....	2,700.00	1	1
Assistant superintendent of experiment station.....	2,460.00	1	1
Pathologist.....	2,400.00	1	1
Assistant zoologist.....	2,220.00	1	1
Assistant zoologist.....	1,980.00	1	1
Physiologist.....	1,980.00	1	1
Junior zoologist.....	1,800.00	1	1
Junior zoologist.....	1,620.00	1	1
Junior zoologist.....	1,400.00	1	1
Chemist.....	1,620.00	1	1
Assistant in poisonous plant investigations.....	1,440.00	1	1
Expert in milk hygiene.....	1,380.00	1	1
Fieldassistant in parasitology.....	840.00	1	1
Clerk, messenger boy, collaborator and cook, \$480 to \$1.....	do.....	4 (2 temp.)	4 (2 temp.)
Wages:			
Unskilled laborers, \$660 to \$360.....	do.....	3 (temp.)	5 (temp.)
		28	30
Salaries.....		\$45,491.00	\$45,376.48
Wages.....		1,350.00	1,845.00
<b>Other objects of expenditure:</b>			
Traveling expenses.....		2,500.00	2,438.21
Equipment and material.....		7,000.00	7,258.57
Miscellaneous items.....		18,819.00	24,465.39
<b>Total.....</b>		<b>75,160.00</b>	<b>81,383.65</b>



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Animal Industry—Continued.**Abortion of animals.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<i>Number.</i>			
Salaries:			
Bacteriologists.....per annum..	\$2,220.00	2	2
Bacteriologist.....do....	1,620.00	1	1
Veterinary inspector.....do....	2,201.00	1	1
Veterinary inspector.....do....	1,980.00	1	1
Veterinary inspector.....do....	1,800.00	1	1
Veterinary inspector.....do....	1,740.00	1	1
Veterinary inspector.....do....	1,620.00	1	1
Veterinary inspector.....do....	1,500.00	1	1
Bacteriologist.....do....	1,620.00	1	1
Agent.....do....	1,000.00	1	1
Agent, cooperating veterina- rian, and charwoman, \$600 to \$480.....do....		3	3
Wages:			
Carpenter.....per diem..	4.50	1	1(partime)
Unskilled laborers, \$3 to \$2.....do....		6 (temp.)	9 (temp.)
		20	23
Salaries.....	\$20,831.00	\$14,435.85	
Wages.....	6,102.00	3,120.00	
Other objects of expenditure:			
Traveling expenses.....	1,500.00	1,442.19	
Equipment and material.....	3,000.00	4,152.96	
Miscellaneous items.....	17,967.00	23,506.03	
Total.....	49,400.00	46,657.03	

- (93) For investigating the disease of hog cholera, and for its control or eradication by such means as may be necessary, including demonstrations, the formation of organizations, and other methods, either independently or in cooperation with farmers, associations, State or county authorities, [§\$446,900] §\$438,080: *Provided*, That of said sum [§\$167,240] §\$163,560 shall be available for expenditure in carrying out the provisions of the act approved March fourth, nineteen hundred and thirteen, regulating the preparation, sale, barter, exchange, or shipment of any virus, serum, toxin, or analogous product manufactured in the United States and the importation of such products intended for use in the treatment of domestic animals: *And provided further*, That of said sum [§\$32,060] §\$30,620 shall be available for researches concerning the cause, modes of spread, and methods of treatment and prevention of this disease (*acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; Oct. 1, 1918, vol. 40, pp. 976-979, sec. 1*) ----- \$438,080.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Animal Industry—Continued.*

NOTE.—There is an apparent decrease in the above item of \$8,820 due to the transfer to the statutory roll of 2 clerks of class 2, 2 clerks of class 1, 1 clerk at \$1,100, 1 clerk at \$1,080, and 2 messengers or laborers at \$720 each.

*Eradicating hog cholera.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Veterinary inspector in charge, per annum.	\$3,500.00	1(part time)	1(part time)
Veterinary inspector.....do.....	2,880.00	1(part time)	1(part time)
Veterinary inspector.....do.....	2,760.00	1(part time)	1(part time)
Veterinary inspector.....do.....	2,730.00	1(part time)	1(part time)
Veterinary inspector.....do.....	2,667.00	1(part time)	1(part time)
Veterinary inspector.....do.....	2,640.00	1(part time)	1(part time)
Veterinary inspector.....do.....	2,610.00	1(part time)	1(part time)
Veterinary inspector.....do.....	2,550.00	1(part time)	1(part time)
Veterinary inspectors.....do.....	2,541.00	4(part time)	4(part time)
Veterinary inspectors.....do.....	2,421.00	7(part time)	7(part time)
Veterinary inspectors.....do.....	2,400.00	2(part time)	2(part time)
Veterinary inspectors.....do.....	2,340.00	8(part time)	8(part time)
Veterinary inspectors.....do.....	2,235.00	8(part time)	8(part time)
Veterinary inspectors.....do.....	2,280.00	2(part time)	2(part time)
Veterinary inspector.....do.....	2,250.00	1(part time)	1(part time)
Veterinary inspectors.....do.....	2,220.00	14(part time)	14(part time)
Veterinary inspector.....do.....	2,160.00	1(part time)	1(part time)
Veterinary inspector.....do.....	2,100.00	1(part time)	1(part time)
Veterinary inspectors.....do.....	2,040.00	5(part time)	5(part time)
Veterinary inspectors.....do.....	1,920.00	3(part time)	3(part time)
Veterinary inspector.....do.....	1,890.00	1(part time)	1(part time)
Veterinary inspectors.....do.....	1,800.00	20(part time)	20(part time)
Veterinary inspectors.....do.....	1,740.00	2(part time)	2(part time)
Veterinary inspectors.....do.....	1,620.00	16(part time)	16(part time)
Veterinary inspectors.....do.....	1,500.00	110(part time)	110(part time)
Clerk †.....do.....	1,400.00	..	1(part time)
Clerk †.....do.....	1,200.00	..	1(part time)
Clerks *.....do.....	1,200.00	..	3(part time)
Clerk †.....do.....	1,100.00	..	1(part time)
Clerk.....do.....	1,000.00	..	1(part time)
Clerk.....do.....	900.00	..	1(part time)
		213	221
Salaries.....		\$151,651.00	\$128,527.66
Other objects of expenditure:			
Traveling expenses.....		75,000.00	53,574.49
Equipment and material.....		6,000.00	5,955.94
Miscellaneous items.....		11,249.00	10,515.64
Total .....		243,900.00	198,573.73

† Recommended for transfer to statutory roll in estimates for 1920.

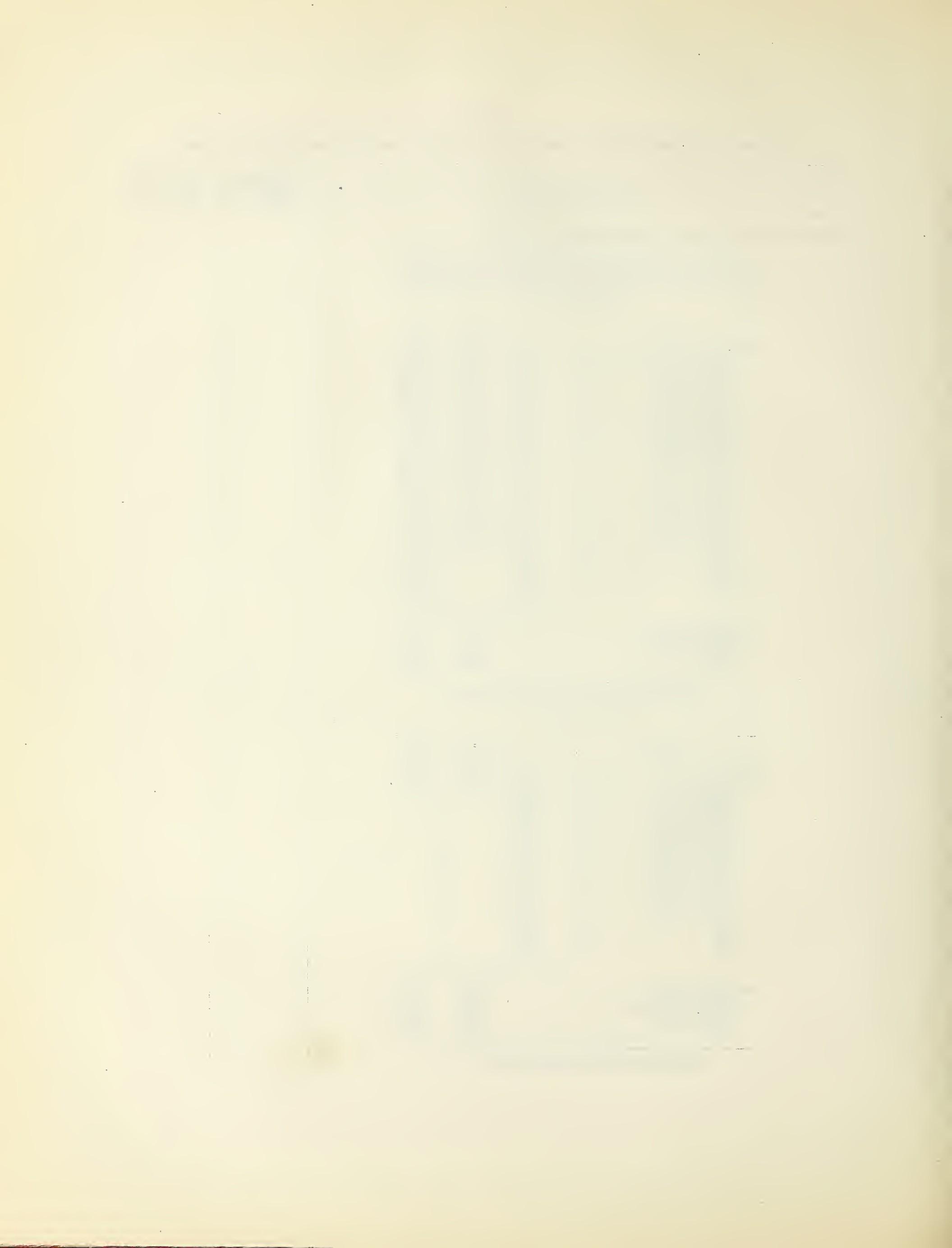
\* Transferred to statutory roll in Agricultural act for 1919.

*Control of viruses.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Senior bacteriologist.....per annum.....	\$2,820.00	1(part time)	1(part time)
Senior bacteriologist.....do.....	2,520.00	1	1
Physiologist.....do.....	2,220.00	1(part time)	1(part time)
Veterinary inspectors.....do.....	2,400.00	2	1
Veterinary inspector.....do.....	2,220.00	1	1
Veterinary inspectors.....do.....	2,160.00	6	6
Veterinary inspector.....do.....	2,040.00	..	1
Veterinary inspector.....do.....	1,980.00	..	1
Veterinary inspectors.....do.....	1,920.00	6	2
Veterinary inspector.....do.....	1,900.00	..	1
Veterinary inspectors.....do.....	1,800.00	17	24
Veterinary inspectors.....do.....	1,620.00	12	20
Veterinary inspectors.....do.....	1,600.00	3	1
Veterinary inspectors.....do.....	1,500.00	8	18
Lay inspectors, grade 2.....do.....	1,200.00	2	2
Lay inspector, grade 2.....do.....	1,100.00	..	1
Lay inspectors, grade 1.....do.....	1,000.00	2	3
Lay inspectors, grade 1.....do.....	960.00	30	23
Clerk †.....do.....	1,400.00	..	1
Clerks *.....do.....	1,200.00	..	2
Clerk †.....do.....	1,200.00	..	1
Clerk.....do.....	1,080.00	..	1
Clerk.....do.....	900.00	..	1
		92	114
Salaries.....		\$147,900.00	\$150,837.85
Other objects of expenditure:			
Traveling expenses.....		7,500.00	7,170.13
Equipment and material.....		3,000.00	3,037.27
Telephone and telegraph service.....		1,775.00	1,761.00
Miscellaneous items.....		3,385.00	2,730.89
Total .....		163,560.00	165,537.14

† Recommended for transfer to statutory roll in estimates for 1920.

\* Transferred to statutory roll in Agricultural act for 1919.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Animal Industry—Continued.**Hog cholera research.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Chief of biochemic division.. per annum..	\$4,500.00	1	1
Senior biochemist.....do.....	3,000.00	1	1
Veterinary inspector.....do.....	3,000.00	1	1
Senior bacteriologist.....do.....	2,700.00	1	1
Veterinary inspector.....do.....	2,280.00	1	1
Laboratory inspector.....do.....	1,980.00	1	1
Clerk.....do.....	1,200.00	..	1 (temp.)
Wages:			
Carpenter.....per diem..	5.00	1 (temp.)	1 (temp.)
Unskilled laborer.....per annum..	1,134.00	1 (temp.)	1 (temp.)
Unskilled laborer.....do.....	1,068.00	1 (temp.)	1 (temp.)
Skilled laborers†.....do.....	720.00	..	2
		9	12
Salaries.....		\$18,960.00	\$16,561.53
Wages.....		1,500.00	1,981.80
Other objects of expenditure:			
Traveling expenses.....		500.00	464.55
Equipment and material.....		1,200.00	1,026.15
Miscellaneous items.....		8,460.00	7,024.17
Total.....		30,620.00	27,058.20

†Recommended for transfer to statutory roll in estimates for 1920.

- (94) For all necessary expenses for the investigation, treatment, and eradication of dourine [§97,800] (acts May 29, 1884, vol. 23, p. 31, secs. 1-11; Aug. 30, 1890, vol. 26, p. 414, secs. 1-10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193-197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1-3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1-6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; Oct. 1, 1918, vol. 40, pp. 976-979, sec. 1) ----- \$88,800.00

NOTE.—There is an apparent decrease in the above item of \$9,000, but taking into consideration the transfer to the statutory roll of 1 clerk of class 1, the actual decrease is only \$7,800.

It is expected that by the beginning of the fiscal year 1920 this work will have diminished to some extent, so that it can be carried on satisfactorily with the reduced appropriation indicated.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Veterinary inspector.....per annum..	\$2,400.00	1	1 (pt. time)
Veterinary inspector.....do.....	2,040.00	1	1 (pt. time)
Veterinary inspector.....do.....	1,980.00	1	1 (pt. time)
Veterinary inspector.....do.....	1,920.00	1	1 (pt. time)
Veterinary inspectors.....do.....	1,800.00	4	4 (pt. time)
Veterinary inspectors.....do.....	1,740.00	2	2 (pt. time)
Veterinary inspector.....do.....	1,620.00	1	1 (pt. time)
Veterinary inspector.....do.....	1,500.00	16	16 (pt. time)
Clerk*.....do.....	1,200.00	..	1
Clerk†.....do.....	1,200.00	..	1
Assistant in pathological laboratory.....do.....	720.00	1	1 (pt. time)
Messenger boy.....do.....	480.00	..	1 (pt. time)
		28	31
Salaries.....		\$44,220.00	\$21,788.07
Other objects of expenditure:			
Traveling expenses.....		27,475.00	19,422.77
Equipment and material.....		1,500.00	1,039.86
Miscellaneous items.....		15,005.00	12,931.51
Total.....		88,800.00	55,182.21

\*Transferred to statutory roll in agricultural act for 1919.

†Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	
<i>General Expenses, Bureau of Animal Industry—Continued.</i>			
(95) For general administrative work, including traveling expenses and salaries of employees engaged in such work, rent outside of the District of Columbia, office fixtures and supplies, express, freight, telegraph, telephone, and other necessary expenses ( <i>acts May 29, 1884, vol. 23, p. 31, secs. 1–11; Aug. 30, 1890, vol. 26, p. 414, secs. 1–10; Mar. 3, 1891, vol. 26, pp. 883, 1089, sec. 1; May 9, 1902, vol. 32, pp. 193–197, sec. 1; Feb. 2, 1903, vol. 32, pp. 791, 792, secs. 1–3; Mar. 3, 1905, vol. 33, p. 1264, secs. 1–6; June 29, 1906, vol. 34, p. 607, sec. 1; Mar. 4, 1913, vol. 37, p. 832, sec. 1; Oct. 1, 1918, vol. 40, pp. 976–979, sec. 1</i> ) -----	\$26, 686. 00		
Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Assistant chief of bureau and pathologist..... per annum.....	\$4, 500. 00	1	1(part time)
Veterinary inspector..... do.....	3, 000. 00	1	1
Chief, miscellaneous division..... do.....	2, 500. 00	1	1
Clerk..... do.....	1, 600. 00	..	1 (temp.)
Clerk..... do.....	1, 400. 00	..	1 (temp.)
Clerks..... do.....	1, 200. 00	6(part time)	9 (temp.)
Clerks..... do.....	1, 000. 00	3(part time)	3 (temp.)
Assistant engineer..... do.....	1, 000. 00	1(part time)	1(part time)
Watchmen and messengers, \$720 to \$480..... do.....		8(part time)	9(part time)
Wages:			
Laborers, \$600 and \$300..... do.....		2(part time)	2(part time)
		22	29
Salaries.....		\$12, 486. 00	\$12, 279. 35
Wages.....		500. 00	225. 00
Other objects of expenditure:			
Stationery.....		1, 500. 00	1, 281. 43
Traveling expenses.....		2, 600. 00	2, 565. 94
Equipment and material.....		3, 000. 00	2, 806. 20
Telephone and telegraph service.....		3, 100. 00	3, 037. 30
Miscellaneous items.....		3, 500. 00	3, 472. 32
Total.....		26, 686. 00	25, 667. 54
In all, for general expenses -----			\$3, 076, 238. 00
Appropriations for 1910..... \$1, 263, 760		Estimates for 1911..... \$1, 234, 540	
Appropriations for 1911..... 1, 234, 540		Estimates for 1912..... 1, 288, 180	
Appropriations for 1912..... 1, 257, 300		Estimates for 1913..... 1, 229, 666	
Appropriations for 1913..... 1, 217, 866		Estimates for 1914..... 1, 366, 546	
Appropriations for 1914..... 1, 371, 946		Estimates for 1915..... 1, 727, 996	
Appropriations for 1915..... 1, 597, 996		Estimates for 1916..... 1, 637, 746	
Appropriations for 1916..... 1, 856, 706		Estimates for 1917..... 2, 072, 776	
Appropriations for 1917..... 2, 277, 776		Estimates for 1918..... 2, 588, 336	
Appropriations for 1918..... 2, 613, 336		Estimates for 1919..... 2, 680, 986	
Appropriations for 1919..... 3, 122, 678		Estimates for 1920..... 3, 076, 238	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

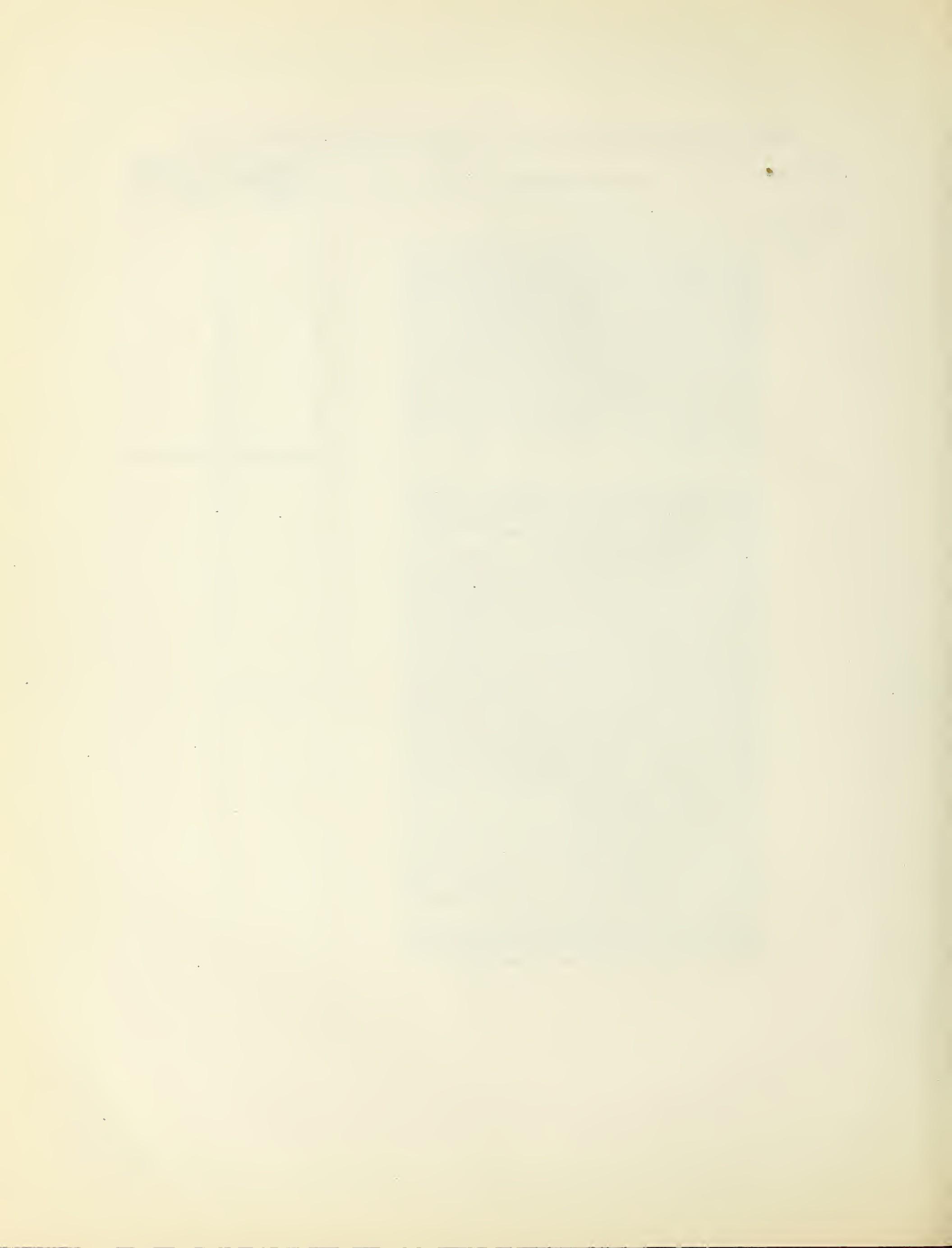
General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Meat Inspection, Bureau of Animal Industry—</i>  (96) For additional expenses in carrying out the provisions of the meat-inspection act of June thirtieth, nineteen hundred and six (Thirty-fourth Statutes at Large, page six hundred and seventy-four), there is hereby appropriated for the fiscal year ending June thirtieth, nineteen hundred and [nineteen] twenty, the sum of [\$477,200] \$449,480: <i>Provided, That, hereafter, the Secretary of Agriculture is authorized, in his discretion, to pay employees of the Bureau of Animal Industry employed in establishments subject to the provisions of the meat-inspection Act of June thirtieth, nineteen hundred and six, for all overtime work performed at such establishments, at such rates as he may determine, and to accept from such establishments wherein such overtime work is performed reimbursement for any sums paid out by him for such overtime work (acts June 30, 1906, vol. 34, p. 674, sec. 1; Oct. 1, 1918, vol. 40, p. 979, sec. 1) -----</i>	\$449,480.00	\$477,200.00

NOTE.—There is an apparent decrease in the above item of \$27,720, due to the transfer to the statutory roll of this bureau of 1 clerk at \$1,500, 1 clerk of class 2, 5 clerks of class 1, 12 clerks at \$960 each, 1 laboratory mechanician at \$1,440, and 2 charwomen at \$480 each, amounting to \$22,820, and the transfer to the statutory roll of the Secretary's office of 2 clerks at \$1,100 each, 1 clerk at \$900, 1 assistant engineer at \$1,200, and 1 messenger boy at \$600, amounting to \$1,900.

A proviso has been added to this paragraph to cover overtime work performed by meat-inspection employees. The meat-inspection service has suffered deterioration and is threatened with very serious impairment of its efficiency because of the loss of many of its trained and experienced employees. The number lost since the United States entered the war has been very large. Many employees have entered the military service, but a larger number have resigned their positions to accept places outside the department at higher salaries, where they also receive pay for overtime work. Bureau employees are not paid for overtime. However, up to this time the Bureau of Animal Industry has succeeded fairly well in preventing excessive demands upon its employees for overtime service. This was accomplished, first, by refusing official establishments inspection outside of official hours unless the existence of an unusual or emergency condition was shown; and, secondly, by furnishing, when possible, some additional employees to the several stations to enable the inspectors in charge to supply relief in those departments where overtime operations were necessary. Under existing conditions, however, neither of these methods is available to the department for avoiding overtime work. The demands upon official establishments to supply meats and products are very great. Inspection for overtime operations must therefore be furnished whenever possible. This has resulted in many instances in imposing excessive hours of service on bureau employees. It is believed that they would, in general, be willing to render this overtime service if they received extra compensation therefor, but the department is without means or authority to meet the situation.

Employees in the meat-inspection service work in the same environment and under the same conditions as do the packing-house employees. In practically all the official establishments the latter receive pay for overtime and at a rate higher than that paid for the basic day. This is in accordance with an agreement entered into by a number of the large packing companies with the mediation committee appointed by the President. The considerations which led that committee to award packing-house employees pay for all overtime and at an increased rate, it is thought, are sufficiently applicable to employees of the Bureau of Animal Industry to justify overtime pay for them also.

It is understood that the department of agriculture of Canada pays its inspectors stationed in official establishments for overtime and that it collects such pay from the establishments in which the overtime service is rendered. It is reported that the plan is working satisfactorily.

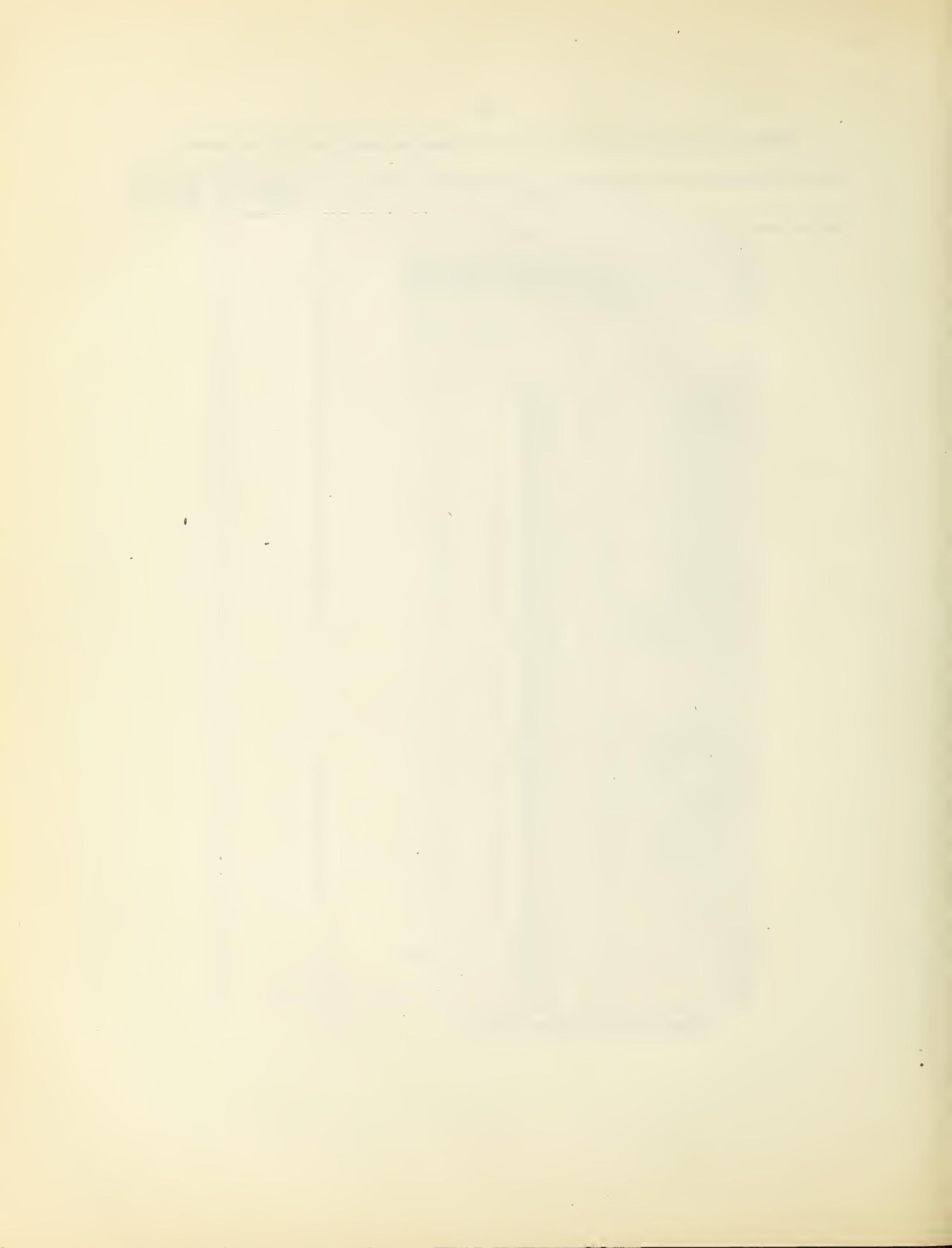


*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Meat Inspection, Bureau of Animal Industry—Continued.</i>		
The trained employees remaining in the service are more urgently needed now than at any time since the present system was fully established. The places of the experienced and trained men can not be filled by men of the grade and quality now available. Undoubtedly the granting of pay for overtime would be a sufficient inducement to many of the men to continue in the service.		
<b>Employees.</b>	<b>Rate.</b>	<b>Estimated, 1920.</b>
		<b>Expended, 1918.</b>
<b>Salaries:</b>		<b>Number.</b>
Chief, Meat Inspection Division.....per annum..	\$4,000.00	1
Veterinary inspector.....do.....	3,800.00	1
Veterinary inspector.....do.....	2,880.00	1
Veterinary inspector.....do.....	2,760.00	4
Veterinary inspector.....do.....	2,750.00	4
Veterinary inspector.....do.....	2,640.00	1
Veterinary inspector.....do.....	2,520.00	1
Veterinary inspector.....do.....	2,500.00	6
Veterinary inspector.....do.....	2,460.00	7
Veterinary inspector.....do.....	2,400.00	14
Veterinary inspector.....do.....	2,280.00	1
Veterinary inspector.....do.....	2,250.00	3
Veterinary inspector.....do.....	2,220.00	19
Veterinary inspector.....do.....	2,190.00	1
Veterinary inspector.....do.....	2,160.00	1
Veterinary inspector.....do.....	2,140.00	1
Veterinary inspector.....do.....	2,040.00	16
Veterinary inspector.....do.....	2,000.00	16
Veterinary inspector.....do.....	1,980.00	18
Veterinary inspector.....do.....	1,920.00	23
Veterinary inspector.....do.....	1,900.00	31
Veterinary inspector.....do.....	1,887.00	1
Veterinary inspector.....do.....	1,800.00	183
Veterinary inspector.....do.....	1,740.00	29
Veterinary inspector.....do.....	1,680.00	1
Veterinary inspector.....do.....	1,620.00	45
Veterinary inspector.....do.....	1,600.00	49
Veterinary inspector.....do.....	1,500.00	312
Traveling veterinary inspectors.....do.....	3,000.00	3
Traveling veterinary inspectors.....do.....	2,520.00	3
Traveling veterinary inspector.....do.....	2,160.00	1
Laboratory inspector in charge.....do.....	2,880.00	1
Senior laboratory inspector.....do.....	2,520.00	1
Senior laboratory inspector.....do.....	2,280.00	1
Senior laboratory inspector.....do.....	2,160.00	1
Senior biochemist.....do.....	2,400.00	1
Biochemist.....do.....	2,280.00	1
Biochemist.....do.....	1,800.00	1
Senior bacteriologist.....do.....	2,220.00	1
Expert in sanitation.....do.....	2,220.00	1
Laboratory inspector.....do.....	2,220.00	3
Laboratory inspector.....do.....	2,160.00	1
Laboratory inspector.....do.....	1,980.00	1
Laboratory Inspector.....do.....	1,400.00	2
Junior laboratory inspector.....do.....	1,800.00	1
Junior laboratory inspector.....do.....	1,740.00	1
Junior laboratory inspector.....do.....	1,620.00	1
Junior laboratory inspector.....do.....	1,500.00	1
Junior laboratory inspector.....do.....	1,350.00	1
Inspector.....do.....	1,800.00	1
Inspector.....do.....	1,600.00	1
Assistant chemist.....do.....	1,740.00	1
Assistant chemist.....do.....	1,560.00	1
Special lay inspector, grade 2.....do.....	1,600.00	1
Lay inspectors, grade 2.....do.....	1,560.00	17
Lay inspectors, grade 2.....do.....	1,400.00	8
Lay inspectors, grade 2.....do.....	1,380.00	75
Lay inspectors, grade 2.....do.....	1,320.00	24
Lay inspector, grade 2.....do.....	1,230.00	1
Lay inspectors, grade 2.....do.....	1,200.00	973
Lay inspector, grade 2.....do.....	1,100.00	1
Lay inspectors, grade 2.....do.....	1,000.00	10
Laboratory aid.....do.....	1,500.00	1
Laboratory aid.....do.....	1,380.00	1
Laboratory aids.....do.....	1,200.00	2
Laboratory mechanician†.....do.....	1,440.00	1
Junior zoologist.....do.....	1,400.00	1
Junior chemist.....do.....	1,400.00	2
Junior chemist.....do.....	1,200.00	1
Clerk†.....do.....	1,500.00	1
Clerk†.....do.....	1,400.00	1
Clerk.....do.....	1,260.00	1
Clerks*.....do.....	1,200.00	10
Clerks†.....do.....	1,200.00	5
Clerks†.....do.....	1,100.00	2
Clerk.....do.....	1,080.00	1
Clerks*.....do.....	1,020.00	3
Clerks.....do.....	1,000.00	2
Assistant engineer.....do.....	1,260.00	1

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	
<i>Meat Inspection, Bureau of Animal Industry—Continued.</i>			
<b>Employees.</b>	<b>Rate.</b>	<b>Estimated, 1920.</b>	
		<b>Expended, 1918.</b>	
Salaries:		<i>Number.</i>	
Chemist aid .....	1,200.00	1	
Lay inspectors, grade 1 .....	1,116.00	2	
Lay inspectors, grade 1 .....	1,100.00	4	
Lay inspectors, grade 1 .....	1,000.00	84	
Lay inspector, assistant meat inspector, assistant micro- scopists, laboratory assist- ant, clerks, messenger boys, and collaborating veteri- narian, \$60 to \$5.....		85	
Messenger boy† .....	600.00	710	
Messenger boys* .....	480.00	...	
Charwoman † .....	480.00	...	
Wages:			
Unskilled laborer.....	600.00	1 (temp.)	
		2,740	
		2,788	
Salaries.....	\$3,282,560.00	\$3,257,232.77	
Wages.....		450.00	
Other objects of expenditure:			
Stationery.....		7,000.00	
Traveling expenses.....		60,000.00	
Equipment and material.....		50,000.00	
Telephone and telegraph service.....		4,500.00	
Miscellaneous items.....		45,420.00	
Total.....	3,449,480.00	3,406,471.72	
Appropriation for 1914.....	\$200,000	Estimate for 1914.....	\$300,000
Appropriation for 1915.....	375,000	Estimate for 1915.....	300,000
Appropriation for 1916.....	375,000	Estimate for 1916.....	375,000
Appropriation for 1917.....	344,500	Estimate for 1917.....	344,500
Appropriation for 1918.....	501,620	Estimate for 1918.....	575,300
Appropriation for 1919.....	477,200	Estimate for 1919.....	477,200
		Estimate for 1920.....	449,480
<i>Statement of clerks employed in District of Columbia under lump-sum appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).</i>			
GENERAL EXPENSES—BUREAU OF ANIMAL INDUSTRY.			
1 clerk, \$1,400 per annum.			
1 clerk, \$1,260 per annum.			
38 clerks, \$1,200 per annum each.			
2 clerks, \$1,100 per annum each.			
2 clerks, \$1,080 per annum each.			
8 clerks, \$1,020 per annum each.			
2 clerks, \$1,000 per annum each.			
1 clerk, \$900 per annum.			
MEAT INSPECTION.			
1 clerk, \$1,800 per annum.			
1 clerk, \$1,600 per annum.			
1 clerk, \$1,500 per annum.			
5 clerks, \$1,400 per annum each.			
1 clerk, \$1,260 per annum.			
29 clerks, \$1,200 per annum each.			
2 clerks, \$1,100 per annum each.			
4 clerks, \$1,080 per annum each.			
3 clerks, \$1,020 per annum each.			
5 clerks, \$1,000 per annum each.			
Total for Bureau of Animal Industry.....		\$4,080,468.00	
		\$4,079,588.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<b>BUREAU OF PLANT INDUSTRY.</b>		
<i>Salaries, Bureau of Plant Industry—</i>		
(1) One physiologist and pathologist, who shall be chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Apr. 23, 1904, vol. 33, p. 281, sec. 1; Oct. 1, 1918, vol. 40, pp. 979-980, sec. 1</i> )-----	\$5,000.00	
(2) One assistant to the chief ( <i>same acts</i> )-----	3,000.00	
(3) One executive assistant in seed distribution ( <i>same acts</i> )-----	2,500.00	
(4) One officer in charge of publications ( <i>same acts</i> )-----	2,250.00	
(5) One landscape gardener ( <i>same acts</i> )-----	1,800.00	
(6) One officer in charge of records ( <i>same acts</i> )-----	2,250.00	
(7) One executive clerk ( <i>same acts</i> )-----	2,000.00	
(8) Three executive clerks, at \$1,980 each (increase of 1 by transfer from lump fund for administrative expenses) ( <i>same acts</i> )-----	5,940.00	
(9) One seed inspector ( <i>same acts</i> )-----	1,000.00	
(10) One seed warehouseman ( <i>same acts</i> )-----	1,400.00	
(11) One seed warehouseman ( <i>same acts</i> )-----	1,000.00	
(12) One seed warehouseman ( <i>same acts</i> )-----	840.00	
(13) Nine clerks, class 4 (increase of 2 by transfer from lump funds, 1 from foreign seed and plant introduction, and 1 from purchase and distribution of valuable seeds) ( <i>same acts</i> )-----	16,200.00	
(14) Fourteen clerks, class 3 (increase of 2 by transfer from lump funds, 1 from crop acclimatization, and 1 from pomological investigations) ( <i>same acts</i> )-----	22,400.00	
(15) Four clerks, at \$1,500 each (increase of 1 by transfer from lump fund for crop acclimatization) ( <i>same acts</i> )-----	6,000.00	
(16) Twenty-six clerks, class 2 (increase of 3 by transfer from lump funds, 1 from citrus canker eradication, 1 from blister rust control, and 1 from stimulating agriculture) ( <i>same acts</i> )-----	36,400.00	
(17) Three clerks, at \$1,320 each (by transfer from lump funds, 1 from forest pathology and 2 from blister rust control) ( <i>same acts</i> )-----	3,960.00	
(18) Seventy-four clerks, class 1 (increase of 16 by transfer from lump funds, 1 from citrus canker eradication, 2 from blister rust control, 6 from cereal investigations, 1 from soil fertility, 2 from foreign seed and plant introduction, 1 from forage crops, 1 from new and rare seeds, 1 from purchase and distribution of valuable seeds, and 1 from stimulating agriculture) ( <i>same acts</i> )-----	88,800.00	
(19) Two clerks or draftsmen, at \$1,200 each (increase of 1 by transfer of 1 draftsman from lump fund for horticultural investigations) ( <i>same acts</i> )-----	2,400.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
(20) Three clerks, at \$1,100 each (by transfer from lump funds, 2 from blister rust control, and 1 from stimulating agriculture) ( <i>R. S.</i> , p. 87, secs. 520–523; <i>acts Apr. 23, 1904, vol. 33, p. 281, sec. 1; Oct. 1, 1918, vol. 40, pp. 979–980, sec. 1</i> ) ...	\$3,300.00	
(21) Four clerks, at \$1,080 each (increase of 3 by transfer from lump funds, 1 from citrus canker eradication, 1 from blister rust control, and 1 from cereal investigations) ( <i>same acts</i> ) .....	4,320.00	
(22) Seven clerks, at \$1,020 each ( <i>same acts</i> ) .....	7,140.00	
(23) Thirty clerks, at \$1,000 each (increase of 5, 1 each by transfer from lump funds for dry land agriculture, horticultural investigations, and new and rare seeds, and 2 from foreign seed and plant introduction) ( <i>same acts</i> ) .....	30,000.00	
(24) Forty-three clerks, at \$900 each (decrease of 1 by transfer to statutory roll, Secretary's office) ( <i>same acts</i> ) .....	38,700.00	
(25) One clerk or draftsman ( <i>same acts</i> ) .....	900.00	
(26) Eleven clerks, at \$840 each ( <i>same acts</i> ) .....	9,240.00	
(27) One laborer ( <i>same acts</i> ) .....	780.00	
(28) Forty-two messengers or laborers, at \$720 each (increase of 1 by transfer of 1 laborer from lump fund for cereal investigations) ( <i>same acts</i> ) .....	30,240.00	
(29) Eleven messengers, messenger boys, or laborers, at \$660 each ( <i>same acts</i> ) .....	7,260.00	
(30) Thirty messengers, messenger boys, or laborers, at \$600 each ( <i>same acts</i> ) .....	18,000.00	
(31) One artist ( <i>same acts</i> ) .....	1,620.00	
(32) One artist (by transfer from lump fund for economic and systematic botany) ( <i>same acts</i> ) .....	900.00	
(33) One clerk or artist ( <i>same acts</i> ) .....	1,400.00	
(34) Two clerks or artists, at \$1,200 each ( <i>same acts</i> ) .....	2,400.00	
(35) One photographer ( <i>same acts</i> ) .....	1,200.00	
(36) One photographer ( <i>same acts</i> ) .....	840.00	
(37) Two laboratory aids, at \$1,440 each ( <i>same acts</i> ) .....	2,880.00	
(38) One laboratory aid ( <i>same acts</i> ) .....	1,380.00	
(39) Four laboratory aids or clerks, at \$1,200 each ( <i>same acts</i> ) ...	4,800.00	
(40) One laboratory aid, clerk, or skilled laborer ( <i>same acts</i> ) .....	1,080.00	
(41) Three laboratory aids, clerks, or skilled laborers, at \$1,020 each ( <i>same acts</i> ) .....	3,060.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
(42) Two laboratory aids, at \$960 each ( <i>R. S., p. 87, secs. 520-523; acts Apr. 23, 1904, vol. 33, p. 281, sec. 1; Oct. 1, 1918, vol. 40, pp. 979-980, sec. 1</i> ) . . . . .	\$1,920.00	
(43) One laboratory aid ( <i>same acts</i> ) . . . . .	900.00	
(44) Four laboratory aids, at \$840 each ( <i>same acts</i> ) . . . . .	3,360.00	
(45) Seven laboratory aids, at \$720 each ( <i>same acts</i> ) . . . . .	5,040.00	
(46) One laboratory apprentice ( <i>same acts</i> ) . . . . .	720.00	
(47) One map tracer ( <i>same acts</i> ) . . . . .	600.00	
(48) Two gardeners, at \$1,440 each ( <i>same acts</i> ) . . . . .	2,880.00	
(49) Four gardeners, at \$1,200 each ( <i>same acts</i> ) . . . . .	4,800.00	
(50) Eight gardeners, at \$1,100 each ( <i>same acts</i> ) . . . . .	8,800.00	
(51) Fifteen gardeners, at \$900 each ( <i>same acts</i> ) . . . . .	13,500.00	
(52) Nineteen gardeners, at \$780 each ( <i>same acts</i> ) . . . . .	14,820.00	
(53) One skilled laborer (by transfer from lump fund for foreign seed and plant introduction) ( <i>same acts</i> ) . . . . .	1,100.00	
(54) One skilled laborer ( <i>same acts</i> ) . . . . .	960.00	
(55) Two skilled laborers, at \$900 each ( <i>same acts</i> ) . . . . .	1,800.00	
(56) Three skilled laborers, at \$840 each ( <i>same acts</i> ) . . . . .	2,520.00	
(57) One assistant in technology ( <i>same acts</i> ) . . . . .	1,400.00	
(58) One assistant in technology ( <i>same acts</i> ) . . . . .	1,380.00	
(59) One mechanician ( <i>same acts</i> ) . . . . .	1,080.00	
(60) One mechanical assistant ( <i>same acts</i> ) . . . . .	1,200.00	
(61) One blacksmith ( <i>same acts</i> ) . . . . .	900.00	
(62) One carpenter ( <i>same acts</i> ) . . . . .	900.00	
(63) One painter ( <i>same acts</i> ) . . . . .	900.00	
(64) One teamster ( <i>same acts</i> ) . . . . .	840.00	
(65) One teamster ( <i>same acts</i> ) . . . . .	600.00	
(66) Twenty-one laborers, at \$540 each ( <i>same acts</i> ) . . . . .	11,340.00	
(67) Thirty-nine laborers, messengers, or messenger boys, at \$480 each (increase of 4 by transfer of 4 messenger boys from lump funds, 1 from pomological investigations, and 3 from foreign seed and plant introduction) ( <i>same acts</i> ) . . . . .	18,720.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
(68) Four laborers or charwomen, at \$480 each ( <i>R. S., p. 87, secs. 520–523; acts Apr. 23, 1904, vol. 33, p. 281, sec. 1; Oct. 1, 1918, vol. 40, pp. 979–980, sec. 1</i> )-----	\$1,920.00	
(69) Five laborers or messenger boys, at \$420 each ( <i>same acts</i> )-----	2,100.00	
(70) Twenty-one charwomen, at \$240 each (increase of 1 by transfer from lump fund for bacteriology and nutrition) ( <i>same acts</i> )-----	5,040.00	
(71) Sixteen messenger boys, at \$360 each ( <i>same acts</i> )-----	5,760.00	
Appropriations for 1910.....\$210,510   Estimates for 1911.....\$255,270 Appropriations for 1911.....255,270   Estimates for 1912.....330,320 Appropriations for 1912.....330,470   Estimates for 1913.....374,790 Appropriations for 1913.....379,820   Estimates for 1914.....424,380 Appropriations for 1914.....427,690   Estimates for 1915.....476,520 Appropriations for 1915.....478,170   Estimates for 1916.....429,430 Appropriations for 1916.....424,150   Estimates for 1917.....418,240 Appropriations for 1917.....418,240   Estimates for 1918.....422,660 Appropriations for 1918.....419,380   Estimates for 1919.....440,020 Appropriations for 1919.....440,020   Estimates for 1920.....494,380	\$494,380.00	\$440,020.00
NOTE.—Apparent increase, \$54,360; actual increase, \$2,800, as follows:		
<i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced.</i>		
1 executive clerk, from administrative expenses.....\$1,980 2 clerks, class 4, from foreign seed and plant introduction and purchase and distribution of valuable seeds.....3,600 2 clerks, class 3, from crop acclimatization and pomological investigations.....3,200 1 clerk, from crop acclimatization.....1,500 2 clerks, class 2, from citrus canker eradication and blister rust control.....2,800 3 clerks, at \$1,320 each, 1 from forest pathology and 2 from blister rust control.....3,960 15 clerks, class 1, 1 from citrus canker eradication, 2 from blister rust control, 6 from cereal investigations, 1 from soil fertility, 2 from foreign seed and plant introduction, 1 from forage crops, 1 from new and rare seeds, and 1 from purchase and distribution of valuable seeds.....18,000 1 draftsman, from horticultural investigations.....1,200 2 clerks, at \$1,100 each, from blister rust control.....2,200 3 clerks, at \$1,080 each, from citrus canker eradication, blister rust control, and cereal investigations.....3,240 5 clerks, at \$1,000 each, 1 each from dry-land agriculture, horticultural investigations, and new and rare seeds, and 2 from foreign seed and plant introduction.....5,000 1 laborer, from cereal investigations.....720 1 artist, from economic and systematic botany.....900 1 skilled laborer, from foreign seed and plant introduction.....1,100 4 messenger boys, at \$480 each, 1 from pomological investigations and 3 from foreign seed and plant introduction.....1,920 1 charwoman, from bacteriology and nutrition.....240	\$51,560	
<i>Transfers from the emergency fund for stimulating agriculture (plant-disease survey), which fund has been correspondingly reduced.</i>		
1 clerk, class 2.....1,400 1 clerk, class 1.....1,200 1 clerk.....1,100	3,700	
<i>Transfer to statutory roll of Secretary's office.</i>		
1 clerk.....900		
Actual increase.....2,800		
Apparent increase.....54,360		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
<b>SUPPLEMENTAL ESTIMATE.</b>		
<i>Promotions:</i>		
(72) 1 artist, \$1,620 to \$1,800-----	\$180	
(The employee for whom the above promotion is recommended is a skilled artist and photographer of pathological subjects whose salary has not been increased since July 1, 1910, but who has been in the service of this bureau almost from its organization. He is expert in his particular line of work in the laboratory of plant pathology, which work is of a type for which few artists have special adaptability. He is capable of handling any agricultural subject from an oil painting of an extensive field to a photograph of the smallest microorganism. His versatility in commanding many art media—oil painting, water color, crayon, pencil, pen and ink, and the camera—give him a wide choice in securing the very best results for either exhibitive or illustrative purposes, and his knowledge of printing and reproductive processes of drawings has made him much sought after by pathologists who are about to publish. He has made many drawings, paintings, photographs, and other illustrative records of scientific value, and many of the department's bulletins and other publications contain his work. He has, moreover, invented a number of excellent devices for the expeditious and economical photographing of laboratory subjects.)		
(73) 1 clerk or artist, \$1,400 to \$1,600-----	200	
(This employee is an artist having rare technical skill. He is also a student of art and is probably one of the best informed of the department workers on the general principles involved in artistic design and execution. He is called upon for work requiring special technical skill, and his present salary is not commensurate with the grade of work he is performing or with his training, he having studied at the Maryland Institute in Baltimore and also at the Royal Bavarian Academy of Fine Arts. He has been in the service of the department for seven years, being last promoted August 1, 1915.)		
(74) 1 clerk or artist, \$1,200 to \$1,600-----	400	
(This employee is one of the bureau's most effective pomological and horticultural artists and is rendering efficient service and turning out work of a superior character. Because of his ability absolutely to follow copy from natural subjects he has proved to be a very useful acquisition to the bureau staff. His salary is entirely inadequate. He has been in the department 3 years and has had no promotion.)		
(75) 1 laborer, \$780, to 1 messenger or laborer, \$900-----	120	
(The above promotion and those which follow, affecting subclerical employees, are recommended in order that the salaries of the respective positions may conform to the minimum salary recommended for such positions, as set forth in the general note regarding minimum salaries. A number of changes in title will be necessary and are indicated in order to accomplish the desired result.)		
(76) 42 messengers or laborers, \$720 to \$900 each-----	7, 560	
(See preceding note.)		
(77) 4 laboratory aids, \$840 to \$900 each-----	240	
(See preceding note.)		
(78) 15 gardeners, \$900 to \$1,000 each-----	1, 500	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
<i>Promotions—Continued.</i>		
(79) 19 gardeners, \$780 to \$1,000 each-----	\$4, 180	
(See preceding note.)		
(80) 1 skilled laborer, \$960 to \$1,000-----	40	
(See preceding note.)		
(81) 2 skilled laborers, \$900 to \$1,000 each-----	200	
(See preceding note.)		
(82) 3 skilled laborers, \$840 to \$1,000 each-----	480	
(See preceding note.)		
(83) 1 mechanician, \$1,080 to \$1,200-----	120	
(See preceding note.)		
(84) 1 carpenter, \$900 to \$1,200-----	300	
(See preceding note.)		
(85) 1 painter, \$900 to \$1,200-----	300	
(See preceding note.)		
(86) 1 teamster, \$840, to 1 messenger or laborer, \$900-----	60	
(See preceding note.)		
(87) 1 teamster, \$600, to 1 messenger or laborer, \$900-----	300	
(See preceding note.)		
<i>New places:</i>		
(88) 1 seed warehouseman-----	1, 000	
(This is a new place and is submitted in lieu of 1 seed warehouseman, at \$840. Help of this character is urgently needed, but it is impossible to retain the services of a competent employee at a salary of \$840 per annum.)		
(89) 11 clerks, at \$1,500 each-----	16, 500	
(These places and 16 clerks, class 2, and 8 clerks, class 1, are submitted in lieu of 43 clerks, at \$900 each, 1 clerk or draftsman, \$900, and 11 clerks at \$840 each, dropped, as below. This readjustment is designed to make the clerical places in the bureau more attractive and in a measure to stop the large number of resignations that have been occurring because of the small salaries paid. If this recommendation is approved, the new clerical places at \$1,500, \$1,400 and \$1,200 will be filled without promotion for the most part, and perhaps altogether by original appointments or transfers from lump-sum appropriations without change in salary. The changes are not recommended with a view to the promotion of any particular persons, but are desired on account of the great difficulty experienced in securing and retaining competent stenographic and clerical help at lower salaries. There are now 23 vacant statutory clerkships at \$900 and 10 at \$840.)		
(90) 16 clerks, class 2-----	22, 400	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
<i>New places—Continued.</i>		
(91) 8 clerks, class 1----- \$9, 600  (See preceding note.)		
(92) 9 laboratory aids, at \$900 each----- 8, 100  (These places are recommended in lieu of 7 laboratory aids, at \$720 each; 1 laboratory apprentice, \$720; and one photographer, \$840. There are at present four vacancies in the \$720 laboratory aid and laboratory apprentice grade and four places are now filled by temporary appointees. It is believed that a salary of \$900 for these places will obviate the difficulty that has been experienced in securing the services of competent employees. No promotions are contemplated unless the temporary employees pass the required examinations and remain in the service. The position of photographer at \$840 has been vacant for some time. It is exceedingly difficult to secure the services of competent photographers at this small salary, and as there is greater need in the bureau for laboratory aids than for photographers the above change is recommended.)		
(93) 1 map tracer or laboratory aid----- 900  (This place is recommended in lieu of one map tracer at \$600. This latter position has been vacant for some time and it is thought that an entrance salary of \$900 might make it possible to secure competent assistance, which is urgently needed along this line. The change in title from "map tracer" to "map tracer or laboratory aid" is recommended in order to permit more latitude in filling the position should it become vacant.)		
(94) 52 messengers or laborers, at \$900 each----- 46, 800  (These are new places and are submitted in lieu of 6 messengers, messenger boys, or laborers, at \$660 each; 16 messengers, messenger boys, or laborers, at \$600 each; 21 laborers at \$540 each; 4 laborers, messengers, or messenger boys, at \$480 each; and 5 laborers or messenger boys, at \$420 each, dropped as below. This change is recommended in conformity with the plan for fixing minimum salaries for messengers and laborers, as set forth in the general note regarding minimum salaries. Competent employees can not be secured and retained at a lower salary, and as the bureau is greatly in need of men of mature years a salary must be offered which will, in a measure, compare with the salary which these men can command outside of the Government service.)		
(95) 1 blacksmith----- 1, 200  (This is a new place and is submitted in lieu of 1 blacksmith at \$900. The position of blacksmith at \$900 has been vacant for three months and no one can be found who is willing to accept the place at this low salary. The services of a blacksmith are greatly needed and a salary of at least \$1,200 per annum must be offered in order to secure the services of a competent person.)		
(96) 16 messenger boys or charwomen, at \$480 each----- 7, 680  (These places are recommended in lieu of 16 messenger boys, at \$360 each, in conformity with the plan of fixing a minimum salary of \$480 per annum for messenger boys, as set forth in the general note regarding minimum salaries. The title "messenger boys or charwomen" is recommended in order to permit more latitude in filling the places should vacancies occur.)	\$130, 360	
<i>Places dropped:</i>		
(97) 43 clerks, at \$900 each----- 38, 700  (See note under item 89.)		
(98) 1 clerk or draftsman----- 900  (See note under item 89.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
<i>Places dropped—Continued.</i>		
(99) 11 clerks, at \$840 each .....	\$9, 240	
(See note under item 89.)		
(100) 1 seed warehouseman .....	840	
(See note under item 88.)		
(101) 7 laboratory aids, at \$720 each .....	5, 040	
(See note under item 92.)		
(102) 1 laboratory apprentice .....	720	
(See note under item 92)		
(103) 1 map tracer .....	600	
(See note under item 93.)		
(104) 1 blacksmith .....	900	
(See note under item 95.)		
(105) 16 messengers boys, at \$360 each .....	5, 760	
(See note under item 96.)		
(106) 1 photographer .....	840	
(See note under item 92.)		
(107) 6 messengers, messenger boys, or laborers, at \$660 each .....	3, 960	
(See note under item 94.)		
(108) 16 messengers, messenger boys, or laborers, at \$600 each .....	9, 600	
(See note under item 94.)		
(109) 21 laborers, at \$540 each .....	11, 340	
(See note under item 94.)		
(110) 4 laborers, messengers, or messenger boys, at \$480 each .....	1, 920	
(See note under item 94.)		
(111) 5 laborers or messenger boys, at \$420 each .....	2, 100	\$92, 460
(See note under item 94.)		
Net increase .....		37, 900



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Plant Industry—Continued.</i>		
<i>Changes in title:</i>		
(112) 1 seed warehouseman, \$1,400, to 1 clerk, class 2.  (This place was created several years ago, but a seed warehouseman of this grade is no longer needed. The person occupying the position performs clerical work and the change recommended will make the title of the position indicate clearly the character of work performed.)		
(113) 5 messengers, messenger boys, or laborers, at \$660 each, to 5 messenger boys, at \$660 each.  (These changes and those which follow are recommended for the purpose of providing titles that will clearly indicate the character of work performed.)		
(114) 14 messengers, messenger boys, or laborers, at \$600 each, to 14 messenger boys, at \$600 each.  (See preceding note.)		
(115) 31 laborers, messengers, or messenger boys, at \$480 each, to 31 messenger boys, at \$480 each.  (See preceding note.)		
(116) 4 laborers, messengers, or messenger boys, at \$480 each, to 4 charwomen, at \$480 each.  (See preceding note.)		
(117) 4 laborers, or charwomen, at \$480 each, to 4 charwomen, at \$480 each.  (See preceding note.)		
<i>General Expenses, Bureau of Plant Industry—</i>		
(118) For all necessary expenses in the investigation of fruits, fruit trees, grain, cotton, tobacco, vegetables, grasses, forage, drug, medicinal, poisonous, fiber, and other plants and plant industries, in cooperation with other branches of the department, the State experiment stations, and practical farmers, and for the erection of necessary farm buildings: <i>Provided</i> , That the cost of any building erected shall not exceed \$1,500; for field and station expenses, including fences, drains, and other farm improvements; for repairs in the District of Columbia and elsewhere; for rent outside of the District of Columbia; and for the employment of all investigators, local and special agents, agricultural explorers, experts, clerks, illustrators, assistants, and all labor and other necessary expenses in the city of Washington and elsewhere required for the investigations, experiments, and demonstrations herein authorized, as follows ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1</i> ):		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																																																
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																																																																																																																		
(119) For investigations of plant diseases and pathological collections, including the maintenance of a plant-disease survey [§62,020] (acts Apr. 18, 1900, vol. 31, pp. 135,136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1) -----	\$81,320.00																																																																																																																																																																	
NOTE.—There is an apparent increase in the above item of \$19,300, but taking into consideration the transfer to the statutory roll from the emergency item for "plant-disease survey" under stimulating agriculture of 1 clerk of class 2, 1 clerk of class 1, and 1 clerk at \$1,100, aggregating \$3,700, the actual increase is \$23,000, which is the total amount now carried under the emergency funds for this work.																																																																																																																																																																		
This increase is desired in order to place the plant-disease survey investigations on a permanent basis. The work was not properly organized until the present year, when its rapid development was made possible by the use of emergency funds. Its value as a complement to both research and extension activities has already been amply demonstrated, and its usefulness is constantly increasing with the development of a better organization throughout the country for collecting plant-disease data through cooperation with pathological workers outside the department. The work is of great permanent value and should be supported by regular funds. The additional amount requested will enable the bureau (1) to maintain an adequate staff of workers, (2) to maintain cooperative relations with pathologists throughout the country, and (3) to undertake a limited amount of special work on diseases of particular importance.																																																																																																																																																																		
<table border="1"> <thead> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1920.</th><th>Expended, 1918.</th></tr> </thead> <tbody> <tr> <td>Salaries:</td><td></td><td></td><td></td></tr> <tr> <td>Pathologist in charge.....per annum</td><td>\$4,500.00</td><td>1</td><td>1</td></tr> <tr> <td>Pathologist.....do.....</td><td>2,760.00</td><td>1</td><td>1</td></tr> <tr> <td>Pathologist.....do.....</td><td>2,280.00</td><td>1</td><td>1</td></tr> <tr> <td>Pathologists.....do.....</td><td>2,040.00</td><td>4</td><td>2</td></tr> <tr> <td>Pathologists.....do.....</td><td>1,860.00</td><td>1</td><td>..</td></tr> <tr> <td>Pathologists.....do.....</td><td>1,800.00</td><td>3</td><td>..</td></tr> <tr> <td>Pathological inspector.....do.....</td><td>1,800.00</td><td>1</td><td>1</td></tr> <tr> <td>Mycologist.....do.....</td><td>2,400.00</td><td>1</td><td>1</td></tr> <tr> <td>Mycologist.....do.....</td><td>2,280.00</td><td>1</td><td>..</td></tr> <tr> <td>Mycologist.....do.....</td><td>2,040.00</td><td>..</td><td>1</td></tr> <tr> <td>Physiologist.....do.....</td><td>2,040.00</td><td>..</td><td>1</td></tr> <tr> <td>Scientific assistants.....do.....</td><td>1,620.00</td><td>1</td><td>2</td></tr> <tr> <td>Scientific assistants.....do.....</td><td>1,500.00</td><td>2</td><td>1</td></tr> <tr> <td>Scientific assistant.....do.....</td><td>1,440.00</td><td>..</td><td>1</td></tr> <tr> <td>Scientific assistant.....do.....</td><td>1,400.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Scientific assistant.....do.....</td><td>1,260.00</td><td>1</td><td>1</td></tr> <tr> <td>Botanical translator.....do.....</td><td>1,500.00</td><td>1</td><td>1</td></tr> <tr> <td>Assistant.....do.....</td><td>1,400.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistant.....do.....</td><td>1,100.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistants.....per month.....</td><td>150.00</td><td>15 (temp.)</td><td>..</td></tr> <tr> <td>Assistants.....do.....</td><td>125.00</td><td>15 (temp.)</td><td>2 (temp.)</td></tr> <tr> <td>Assistants.....do.....</td><td>100.00</td><td>2 (temp.)</td><td>3 (temp.)</td></tr> <tr> <td>Assistant, messenger boys, laboratory aid, field assistant, agent, and collaborator—</td><td></td><td></td><td></td></tr> <tr> <td>\$900 to \$1.....per annum.....</td><td>53 (temp.)</td><td>34 (temp.)</td><td></td></tr> <tr> <td>\$150 to \$1.....per month.....</td><td>57 (temp.)</td><td>55 (temp.)</td><td></td></tr> <tr> <td>Wages:</td><td></td><td></td><td></td></tr> <tr> <td>Miscellaneous temporary labor—</td><td></td><td></td><td></td></tr> <tr> <td>\$60 to \$20.....per month.....</td><td>..</td><td>4 (temp.)</td><td></td></tr> <tr> <td>\$3.....per diem.....</td><td>..</td><td>1 (temp.)</td><td></td></tr> <tr> <td></td><td>163</td><td>115</td><td></td></tr> <tr> <td>Salaries.....</td><td>855,570.00</td><td>\$33,921.35</td><td></td></tr> <tr> <td>Wages.....</td><td></td><td>452.68</td><td></td></tr> <tr> <td>Other objects of expenditure:</td><td></td><td></td><td></td></tr> <tr> <td>Stationery.....</td><td>3,075.00</td><td>1,154.84</td><td></td></tr> <tr> <td>Traveling expenses.....</td><td>13,000.00</td><td>3,270.24</td><td></td></tr> <tr> <td>Equipment and material.....</td><td>7,080.00</td><td>5,981.60</td><td></td></tr> <tr> <td>Miscellaneous items.....</td><td>2,645.00</td><td>4,916.69</td><td></td></tr> <tr> <td>Total.....</td><td>81,320.00</td><td>49,697.40</td><td></td></tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:				Pathologist in charge.....per annum	\$4,500.00	1	1	Pathologist.....do.....	2,760.00	1	1	Pathologist.....do.....	2,280.00	1	1	Pathologists.....do.....	2,040.00	4	2	Pathologists.....do.....	1,860.00	1	..	Pathologists.....do.....	1,800.00	3	..	Pathological inspector.....do.....	1,800.00	1	1	Mycologist.....do.....	2,400.00	1	1	Mycologist.....do.....	2,280.00	1	..	Mycologist.....do.....	2,040.00	..	1	Physiologist.....do.....	2,040.00	..	1	Scientific assistants.....do.....	1,620.00	1	2	Scientific assistants.....do.....	1,500.00	2	1	Scientific assistant.....do.....	1,440.00	..	1	Scientific assistant.....do.....	1,400.00	..	1 (temp.)	Scientific assistant.....do.....	1,260.00	1	1	Botanical translator.....do.....	1,500.00	1	1	Assistant.....do.....	1,400.00	1	..	Assistant.....do.....	1,100.00	1	..	Assistants.....per month.....	150.00	15 (temp.)	..	Assistants.....do.....	125.00	15 (temp.)	2 (temp.)	Assistants.....do.....	100.00	2 (temp.)	3 (temp.)	Assistant, messenger boys, laboratory aid, field assistant, agent, and collaborator—				\$900 to \$1.....per annum.....	53 (temp.)	34 (temp.)		\$150 to \$1.....per month.....	57 (temp.)	55 (temp.)		Wages:				Miscellaneous temporary labor—				\$60 to \$20.....per month.....	..	4 (temp.)		\$3.....per diem.....	..	1 (temp.)			163	115		Salaries.....	855,570.00	\$33,921.35		Wages.....		452.68		Other objects of expenditure:				Stationery.....	3,075.00	1,154.84		Traveling expenses.....	13,000.00	3,270.24		Equipment and material.....	7,080.00	5,981.60		Miscellaneous items.....	2,645.00	4,916.69		Total.....	81,320.00	49,697.40			
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(120) For the investigation of diseases of orchard and other fruits, \$75,935: <i>Provided</i> , That \$8,000 of said amount shall be available for the investigation of diseases of the pecan ( <i>same acts</i> ) -----	75,935.00																																																																																																																																																																	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Plant Industry—Continued.**Fruit diseases.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Pathologist in charge.....per annum..	\$4,000.00	1	1
Pathologists.....do.....	3,500.00	2	1
Pathologist.....do.....	3,240.00	1	1
Pathologist.....do.....	3,000.00	-	1
Pathologists.....do.....	2,760.00	2	2
Pathologist.....do.....	2,520.00	1	-
Pathologist.....do.....	2,280.00	-	1
Pathologists.....do.....	2,040.00	5	2
Pathologist.....do.....	1,800.00	-	1
Botanical artist.....do.....	2,040.00	1	-
Botanical artist.....do.....	1,800.00	-	1
Scientific assistants.....do.....	1,860.00	2	1
Scientific assistants.....do.....	1,800.00	1	3
Scientific assistant.....do.....	1,680.00	1	-
Scientific assistants.....do.....	1,620.00	3	3
Scientific assistants.....do.....	1,440.00	2	1
Scientific assistants.....do.....	1,200.00	3	3
Assistant.....per month.....	150.00	-	1 (temp.)
Assistants.....do.....	125.00	-	2 (temp.)
Assistant.....do.....	120.00	-	1 (temp.)
Assistant.....do.....	100.00	1	1 (temp.)
Laboratory aids, and char- woman, \$900 to \$240.....per annum.....		2 (temp.)	4 (3 temp.)
Wages:			
Miscellaneous temporary labor— \$65 to \$15.....per month.....	3	1	
\$6.50 to \$1.60.....per diem.....		-	7
		31	39
Salaries.....		\$49,420.00	\$44,063.94
Wages.....		1,000.00	1,500.27
Other objects of expenditure:			
Stationery.....		600.00	597.95
Traveling expenses.....		9,700.00	7,552.64
Equipment and material.....		5,420.00	6,964.92
Miscellaneous items.....		1,795.00	6,460.00
Total.....		67,935.00	67,139.72

*Pecan diseases.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Assistant pathologist.....per annum..	\$2,020.00	1	1
Scientific assistant.....do.....	1,620.00	1	-
		2	2
Salaries.....		\$3,660.00	\$2,246.75
Other objects of expenditure:			
Traveling expenses.....		2,300.00	1,364.69
Equipment and material.....		1,000.00	1,321.71
Miscellaneous items.....		1,040.00	1,650.88
Total.....		8,000.00	6,584.03

- (121) For conducting such investigations of the nature and means of communication of the disease of citrus trees, known as citrus canker, and for applying such methods of eradication or control of the disease as in the judgment of the Secretary of Agriculture may be necessary, including the payment of such expenses and the employment of such persons and means, in the City of Washington and elsewhere, and cooperation with such authorities of the States concerned, organizations of growers, or individuals, as he may deem necessary to accomplish such purposes, [ \$250,000 ] \$196,320, and, in the discretion of the Secretary of Agriculture, no expenditures shall be made for these purposes until a sum or sums at least equal to such



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																																																																																																
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NOTE.—There is an apparent decrease in the above item of \$53,680, but as 1 clerk of class 2, 1 clerk of class 1, and 1 clerk at \$1,080 have been transferred to the statutory roll, the actual decrease is only \$50,000. The progress of the citrus-canker campaign has been so satisfactory that it has been possible to discontinue the work in Georgia and South Carolina. It is believed that the disease can be effectively controlled in the remaining infested territory during the next fiscal year with the reduced appropriation indicated.																																																																																																																																																																																																																		
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Rate.	Estimated, 1920.	Expended, 1918.			Number.	Number.	<b>Salaries:</b>				Physiologist in charge.....per annum..	\$4,500.00	..	1 (pt. time)	Pathologist.....do.....	1,800.00	..	1 (pt. time)	Scientific assistant.....do.....	1,620.00	..	1	Plant propagator.....do.....	1,400.00	1	1 (pt. time)	Assistant.....do.....	1,470.00	..	1	Assistant.....do.....	1,400.00	1	..	Assistant.....do.....	1,260.00	1	1	Assistant.....do.....	1,080.00	1	..	Assistant.....do.....	1,000.00	..	1 (pt. time)	Agent.....do.....	2,540.00	..	1 (temp.)	Agent.....do.....	1,500.00	..	1	Agent.....per month..	225.00	..	1	Agent.....do.....	220.00	..	1	Agent.....do.....	210.00	1 (temp.)	..	Agent.....do.....	200.00	1 (temp.)	..	Agents.....do.....	195.00	2 (temp.)	3	Agents.....do.....	175.00	..	5	Agents.....do.....	170.00	..	7 (2 temp.)	Agents.....do.....	160.00	1 (temp.)	2 (temp.)	Agents.....do.....	150.00	4 (temp.)	3 (1 temp.)	Agents.....do.....	145.00	..	13 (5 temp.)	Agent.....do.....	140.00	..	1 (temp.)	Agents.....do.....	135.00	1 (temp.)	2 (temp.)	Agents.....do.....	125.00	12 (temp.)	8 (5 temp.)	Agents.....do.....	120.00	..	2 (1 temp.)	Agents.....do.....	110.00	..	3 (1 temp.)	Agents.....do.....	100.00	..	18 (4 temp.)	Agent.....do.....	95.00	..	1	Agents.....do.....	90.00	..	10 (4 temp.)	Agents.....do.....	85.00	..	31 (6 temp.)	Clerk†.....per annum..	1,400.00	..	1	Clerk†.....do.....	1,200.00	..	1	Clerk†.....do.....	1,080.00	..	1	Clerk*.....do.....	900.00	..	1	Clerk*.....do.....	840.00	..	1	Agents, field assistants, assistants, and collaborators— \$80 to \$1.....per month..	..	282 (184 temp.)	16(15 temp.)	\$10.50 to \$3.....per diem..	110	..		<b>Wages:</b>				Miscellaneous and temporary labor— \$40 to \$7.50.....per month..	2	..		\$2.....per diem..	..	9 (temp.)			138	429		<b>Salaries.....</b>	\$160,780.00	\$185,259.68		<b>Wages.....</b>	7,000.00	7,386.10		<b>Other objects of expenditure:</b>				Stationery.....	1,000.00	1,362.73		Traveling expenses.....	23,820.00	26,996.09		Equipment and material.....	2,500.00	8,027.97		Miscellaneous items.....	1,220.00	13,693.06		<b>Total.....</b>	196,320.00	242,725.63			
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\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Plant Industry—Continued.*

- (122) For the investigation of diseases of forest and ornamental trees and shrubs, including a study of the nature and habits of the parasitic fungi causing the chestnut-tree bark disease, the white-pine blister rust, and other epidemic tree diseases, for the purpose of discovering new methods of control and applying methods of eradication or control already discovered [§83,635] (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1) ----- \$82,315.00

NOTE.—There is an apparent decrease in the above item of \$1,320, due to the transfer to the statutory roll of 1 clerk at \$1,320.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Pathologist in charge.....per annum..	\$3,500.00	1	1
Pathologists.....do.....	3,000.00	4	3
Pathologist.....do.....	2,760.00	2	2
Pathologist.....do.....	2,700.00	1	...
Pathologist.....do.....	2,520.00	..	1
Pathologist.....do.....	2,500.00	1	1
Pathologist.....do.....	2,400.00	..	1
Pathologist.....do.....	2,280.00	1	...
Pathologist.....do.....	2,040.00	2	2(1pt.time)
Pathologist.....do.....	1,800.00	3	5(1pt.time)
Pathologist.....do.....	1,620.00	1	1
Pathologist.....do.....	1,440.00	3	...
Pathologists.....do.....	1,200.00	2	...
Pathologists.....per month..	225.00	..	3(1pt.time)
Pathologist.....do.....	210.00	1	...
Pathologist.....do.....	95.00	1	...
Pathological inspector.....per annum..	1,200.00	1	1 (temp.)
Physiologist.....do.....	2,040.00	1	1(pt. time)
Scientific assistant.....do.....	1,800.00	1	...
Scientific assistant.....do.....	1,500.00	1	1
Scientific assistants.....do.....	1,440.00	2	5 (2 temp.)
Scientific assistants.....do.....	1,200.00	..	2
Clerk †.....do.....	1,320.00	..	1
Assistants.....do.....	1,200.00	2	2(1pt.time)
Assistants.....do.....	1,080.00	1	1
Assistants.....do.....	1,000.00	..	1(pt.time)
Field assistant.....per month..	160.00	1	1
Field assistant.....do.....	155.00	1	1
Field assistant.....do.....	150.00	1	1 (temp.)
Field assistant.....do.....	95.00	1	1
Field assistant.....do.....	85.00	1	1 (temp.)
Messenger boys, field assistants, collaborators, and student assistants, \$900 to \$1 per annum.....	14	22 (12 temp. pt.time)	
Wages:			
Miscellaneous and temporary labor, \$4 to \$1.33.....per diem..	25	44	
	76	106	
Salaries.....	\$63,041.00	\$48,748.52	
Wages.....	2,000.00	2,296.83	
Other objects of expenditure:			
Stationery.....	500.00	1,207.00	
Traveling expenses.....	12,274.00	9,242.84	
Equipment and material.....	3,000.00	11,322.79	
Miscellaneous items.....	1,500.00	8,796.90	
Total.....	82,315.00	81,614.88	

† Recommended for transfer to statutory roll in estimates for 1920.

- (123) For applying such methods of eradication or control of the white-pine blister rust as in the judgment of the Secretary of Agriculture may be necessary, including the payment of such expenses and the employment of such persons and means in the city of Washington and elsewhere, in cooperation with such authorities of the States concerned, organizations, or individuals as he may deem necessary to accomplish such purposes [§230,448], \$220,728, and in the discretion of the Secretary of Agriculture no expenditures shall be made for these purposes until a sum or sums at least equal to such expenditures shall have been appropriated, subscribed, or contributed by State, county,



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>		
or local authorities, or by individuals or organizations for the accomplishment of such purposes: <i>Provided</i> , That no part of the money herein appropriated shall be used to pay the cost or value of trees or other property injured or destroyed (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1) -----	\$220,728.00	
NOTE.—There is an apparent decrease in the above item of \$9,720, due to the transfer to the statutory roll of 1 clerk of class 2, 2 clerks at \$1,320 each, 2 clerks of class 1, 2 clerks at \$1,100 each, and 1 clerk at \$1,080.		
<i>Employees.</i>	<i>Rate.</i>	<i>Estimated, 1920.</i>
		<i>Expended, 1918.</i>
Salaries:		<i>Number.</i>
Pathologists.....per annum.....	\$3,000.00	1
Pathologist.....do.....	2,400.00	..
Pathologists.....do.....	2,040.00	2
Pathologists.....do.....	1,800.00	2
Scientific assistant.....do.....	1,440.00	..
Assistant.....do.....	1,600.00	1
Assistant.....do.....	1,500.00	1
Assistant.....do.....	1,440.00	1
Assistant.....do.....	1,320.00	1
Assistant.....do.....	1,200.00	..
Agent.....do.....	1,800.00	..
Agent.....per month.....	200.00	1
Agent.....do.....	175.00	1
Agent.....do.....	170.00	1
Agent.....do.....	150.00	..
Agent.....do.....	145.00	1
Agents.....do.....	125.00	2
Agent.....do.....	120.00	1 (temp.)
Agents.....do.....	117.00	..
Agents.....do.....	100.00	6 (4 temp.)
Agent.....do.....	95.00	..
Agents.....do.....	90.00	1 (temp.)
Agents.....do.....	85.00	1 (temp.)
Field assistant.....do.....	250.00	..
Field assistant.....do.....	225.00	..
Field assistants.....do.....	200.00	3 (temp.)
Field assistant.....do.....	188.00	..
Field assistants.....do.....	175.00	1 (temp.)
Field assistants.....do.....	150.00	2 (temp.)
Field assistants.....do.....	125.00	8 (temp.)
Field assistants.....do.....	120.00	2 (temp.)
Field assistant.....do.....	116.00	..
Field assistant.....do.....	115.00	1 (temp.)
Field assistants.....do.....	110.00	1 (temp.)
Field assistant.....do.....	105.00	1 (temp.)
Field assistants.....do.....	100.00	14 (temp.)
Field assistant.....do.....	95.00	..
Field assistants.....do.....	90.00	2 (temp.)
Field assistants.....do.....	85.00	9 (temp.)
Clerks†.....per annum.....	1,400.00	..
Clerks†.....do.....	1,320.00	..
Clerks†.....do.....	1,200.00	..
Clerks†.....do.....	1,100.00	..
Clerk†.....do.....	1,080.00	..
Clerks†.....do.....	1,000.00	..
Clerk, messenger boys, field assistants, collaborators, watchmen, and draftsmen—		
\$80 to \$1.....per month.....	67 (64 temp.)	230 (221 temp.)
\$5.75 to \$1.50.....per diem.....	43 (temp.)	3 (temp.)
Wages:		
Miscellaneous temporary labor—		
\$60 to \$30.....per month.....	..	10
\$5.33 to \$1.50.....per diem.....	138	1,066
\$0.50 to \$0.15.....per hour.....	..	30
	316	1,498
Salaries.....	\$104,119.80	\$94,157.50
Wages.....	63,530.80	42,869.13
Other objects of expenditure:		
Stationery.....	4,000.00	351.89
Traveling expenses.....	42,000.00	35,458.94
Equipment and material.....	5,000.00	32,240.50
Miscellaneous items.....	2,077.40	53,593.90
Total.....	220,728.00	258,671.86

†Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Plant Industry—Continued.*

- (124) For the investigation of diseases of cotton, potatoes, truck crops, forage crops, drug and related plants (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1*) ----- \$87,800.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Pathologist in charge.....per annum..	\$3,700.00	1	1
Pathologist.....do.....	3,240.00	1	...
Pathologist.....do.....	2,520.00	1	1
Pathologists.....do.....	2,400.00	2	1
Pathologists.....do.....	2,280.00	2	1
Pathologist.....do.....	2,160.00	1	...
Pathologists.....do.....	2,040.00	2	3
Pathologists.....do.....	2,000.00	1	2
Pathologist.....do.....	1,800.00	1	1
Pathologist.....do.....	1,620.00	1	1
Pathologist.....do.....	1,500.00	1	1
Physiologist.....do.....	3,000.00	..	1
Physiologists.....do.....	2,400.00	2	2
Biochemist.....do.....	2,520.00	1	1
Scientific assistants.....do.....	1,620.00	2	2
Scientific assistants.....do.....	1,500.00	..	2 (temp.)
Scientific assistant.....do.....	1,200.00	1	1
Agent.....do.....	1,500.00	1	1
Assistants.....do.....	1,200.00	..	2 (temp., 1 parttime)
Assistant.....do.....	1,100.00	1	..
Field assistants.....do.....	1,080.00	1	5 (temp.)
Field assistants.....per month..	125.00	4 (temp.)	..
Field assistant.....do.....	110.00	..	1 (temp.)
Field assistants.....do.....	100.00	..	2 (temp.)
Field assistant.....do.....	95.00	1 (temp.)	1
Agent, assistants, gardener, aids, and collaborators— \$900 to \$1.....per annum..	.....	6	27 (14 temp., 6 part time)
\$9 and \$2.50.....per diem..	.....	..	2 (temp.)
Wages:			
Miscellaneous temporary labor— \$75 to \$50.....per month..	.....	3	6
\$5 to \$1.25.....per diem..	.....	..	47
		37	115
Salaries.....	\$55,310.00	\$50,956.51	
Wages.....	1,000.00	2,174.84	
Other objects of expenditure:			
Stationery.....	1,000.00	797.26	
Traveling expenses.....	22,740.00	9,577.27	
Equipment and material.....	5,250.00	8,843.04	
Miscellaneous items.....	2,500.00	10,196.78	
Total.....	87,800.00	82,545.70	

- (125) For investigating the physiology of crop plants and for testing and breeding varieties thereof (*same acts*) ----- 48,460.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Physiologist in charge.....per annum..	\$4,000.00	1	1
Physiologist.....do.....	3,000.00	1	1
Arboriculturist.....do.....	3,000.00	1	1
Assistant.....do.....	2,520.00	1	1
Assistant.....do.....	1,200.00	..	1
Farm superintendent.....do.....	2,500.00	..	1
Assistant plant breeder.....do.....	2,280.00	1	..
Assistant plant breeder.....do.....	2,040.00	..	1
Botanical assistant.....do.....	1,920.00	1	1
Translators.....do.....	1,620.00	2	..
Translator.....do.....	1,500.00	..	1
Translator.....do.....	1,440.00	..	1
Agent.....do.....	1,200.00	1	1 (temp.)
Physiologist, translators, agents, student assistants, gardener, messenger boys, and collaborators— \$900 to \$12.....do.....	.....	12	19 (5 temp., 1 parttime)
\$6 to \$2.50.....per diem..	.....	3	(25 temp.)



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Plant Industry—Continued.**Crap physiology—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$900 to \$480.....per annum.....		3	4
\$75 to \$7.50.....per month.....		..	3
\$5 to \$0.75.....per diem.....		..	30
		27	72
Salaries.....		\$26,144.00	\$25,780.91
Wages.....		1,800.00	3,657.69
<b>Other objects of expenditure:</b>			
Stationery.....		2,400.00	1,121.47
Traveling expenses.....		9,000.00	3,729.30
Equipment and material.....		5,750.00	6,660.18
Miscellaneous items.....		3,366.00	7,112.56
Total.....		48,460.00	48,062.11

- (126) For soil-bacteriology and plant-nutrition investigations, including the testing of samples, procured in the open market, of cultures for inoculating legumes, and if any such samples are found to be impure, nonviable, or misbranded, the results of the tests may be published, together with the names of the manufacturers and of the persons by whom the cultures were offered for sale [§39,300] (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1) ----- \$39,060.00

NOTE.—There is an apparent decrease in the above item of \$240, due to the transfer to the statutory roll of 1 charwoman at \$240.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>			
Scil bio'gist.....per annum.....	\$3,000.00	1	1
Physiologist.....do.....	3,000.00	1(part time)	1(part time)
Physiologists.....do.....	2,280.00	2	1
Physiologists.....do.....	2,040.00	2	3
Physiologist.....do.....	1,920.00	1	1
Soil mycologist.....do.....	2,280.00	1	1
Scientific assistants.....do.....	1,800.00	..	2
Scientific assistants.....do.....	1,500.00	1	1
Junior chemist.....do.....	1,200.00	1	1
Assistant.....do.....	2,040.00	1	..
Assistant.....do.....	1,000.00	..	1
Charwoman †.....do.....	240.00	..	1
Assistant, laboratory aids, and messenger boys—			
\$900 to \$480.....do.....		3	5 (2 temp.)
<b>Wages:</b>			
Laborers, \$55 and \$40.....per month.....		..	2
Miscellaneous temporary labor—			
\$720 to \$300.....per annum.....		3	8
\$2.....per diem.....		..	1
		17	30
Salaries.....		\$22,300.00	\$22,337.63
Wages.....		1,000.00	2,222.50
<b>Other objects of expenditure:</b>			
Stationery.....		1,200.00	1,454.35
Traveling expenses.....		3,000.00	863.23
Equipment and material.....		10,300.00	3,326.12
Miscellaneous items.....		1,260.00	2,709.10
Total.....		39,060.00	32,912.93

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Plant Industry—Continued.*

- (127) For soil-fertility investigations into organic causes of infertility and remedial measures, maintenance of productivity, properties and composition of soil humus, and the transformation and formation of soil humus by soil organisms [§36,260] (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1) ----- \$35,060.00

NOTE.—There is an apparent decrease in the above item of \$1,200, due to the transfer to the statutory roll of 1 clerk of class 1.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Biochemist in charge.....per annum..	\$3,750.00	1	1
Biochemist.....do.....	2,640.00	1	..
Biochemist.....do.....	2,520.00	1	1
Biochemists.....do.....	2,400.00	1	2 (1 pt time)
Biochemist.....do.....	2,280.00	1	1 (temp.)
Biochemist.....do.....	2,160.00	1	..
Biochemists.....do.....	2,040.00	3	3
Biochemist.....do.....	1,980.00	..	1
Biochemist.....do.....	1,800.00	1	1
Biochemist.....do.....	1,620.00	1	1
Biochemist.....do.....	1,440.00	1	1
Physiologist.....do.....	2,220.00	1	1
Scientific assistant.....do.....	1,440.00	1	1
Assistant.....do.....	1,100.00	..	1
Clerk †.....do.....	1,200.00	..	1
Clerk and charwoman— \$900 and \$240.....do.....	..	..	2 (1 temp.)
Wages:			
Miscellaneous temporary labor— \$50.....per month.....	..	1	..
\$3.50 to \$2.....per diem.....	4	6	..
		18	25
Salaries.....	\$30,390.00	\$27,305.83	
Wages.....	250.00	537.75	
Other objects of expenditure:			
Traveling expenses.....	2,100.00	1,641.30	
Equipment and material.....	625.00	2,126.19	
Miscellaneous items.....	1,695.00	4,621.69	
Total.....	35,060.00	36,232.76	

†Recommended for transfer to statutory roll in estimates for 1920.

- (128) For acclimatization and adaptation investigations of cotton, corn, and other crops introduced from tropical regions, and for the improvement of cotton and other fiber plants by cultural methods, breeding, and selection, and for determining the feasibility of increasing the production of hard fibers outside of the continental United States, [§107,510] §104,410: *Provided*, That not less than \$7,500 of this sum shall be used for experiments in cottonseed interbreeding: *Provided further*, That of this amount \$3,000 may be used for experiments in the production of New Zealand flax in the United States and for its utilization in the manufacture of binder twine (*same acts*) ----- 104,410.00

NOTE.—There is an apparent decrease in the above item of \$3,100, due to the transfer to the statutory roll of 1 clerk of class 3 and 1 clerk at \$1,500.



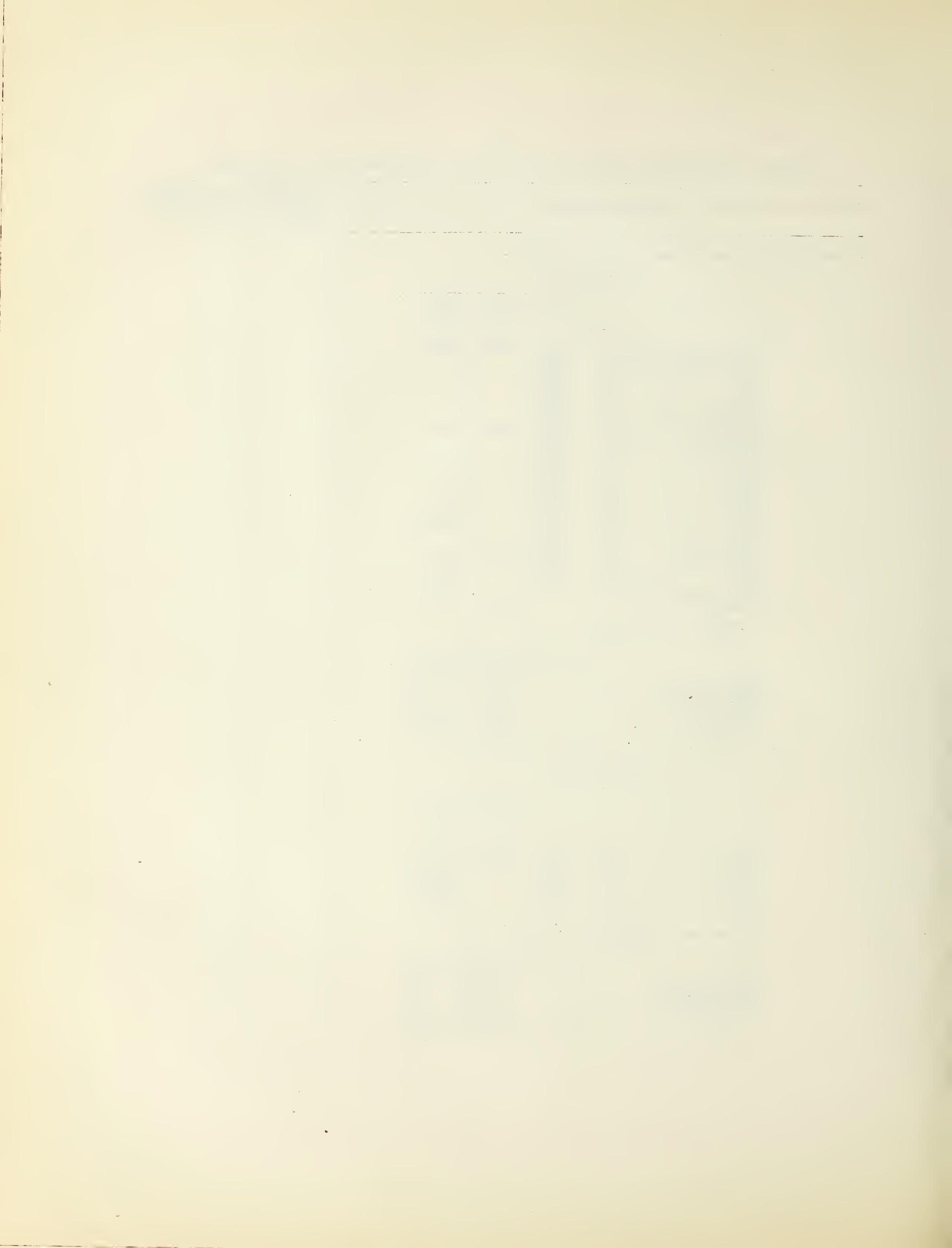
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	
<i>General Expenses, Bureau of Plant Industry—Continued</i>			
<i>Crop acclimatization.</i>			
Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number. 1(part time)	Number. 1(part time)
Bionomist in charge.....per annum.....	\$4,000.00	1	..
Botanist in charge of fiber plants.....do.....	3,500.00	1	..
Botanist in charge of fiber plants.....do.....	3,240.00	..	1
Botanist.....do.....	3,000.00	1	1
Botanist.....do.....	2,520.00	1	..
Botanist.....do.....	2,280.00	1	..
Botanist.....do.....	2,040.00	..	1
Specialist in fiber production.....do.....	3,240.00	1	1
Agronomist.....do.....	2,640.00	..	1
Agriculturist.....do.....	2,500.00	1	..
Agriculturist.....per month.....	250.00	1 (temp.)	1 (temp.)
Plant breeder.....per annum.....	2,520.00	1	..
Plant breeder.....do.....	2,040.00	..	1
Farm superintendent.....do.....	2,500.00	1	..
Assistant.....do.....	2,280.00	1	..
Assistant.....do.....	2,040.00	..	1
Assistants.....do.....	1,800.00	1	2(1 pt. time)
Assistants.....do.....	1,680.00	2	2
Assistant.....do.....	1,400.00	1	1
Assistants.....do.....	1,200.00	4	2(temp.)
Assistant.....do.....	1,080.00	1	1
Assistants.....do.....	1,000.00	2	3(part time)
Clerk †.....do.....	1,600.00	..	1(part time)
Clerk †.....do.....	1,500.00	..	1
Scientific assistant.....do.....	1,920.00	1	..
Scientific assistants.....do.....	1,440.00	2	2
Agent.....do.....	2,000.00	1 (temp.)	1 (temp.)
Agent.....do.....	1,440.00	1	..
Agent.....do.....	1,400.00	..	1 (temp.)
Agent.....per month.....	100.00	..	1 (temp.)
Messenger boys, laboratory aids, and collaborators— \$840 to \$1.....per annum.....	3 (temp.)	8 (temp.)	
Wages:			
Miscellaneous temporary labor— \$60 to \$25.....per month.....	7	9	
\$3.50 to \$1.....per diem.....	..	18	
	37	62	
Salaries.....	\$52,427.00	\$33,966.39	
Wages.....	2,000.00	3,218.34	
Other objects of expenditure:			
Stationery.....	1,100.00	940.81	
Traveling expenses.....	18,456.00	8,409.03	
Equipment and material.....	14,000.00	13,274.73	
Miscellaneous items.....	5,927.00	13,338.08	
Total.....	93,910.00	73,147.38	

† Recommended for transfer to the statutory roll in estimates for 1920.

*Cottonseed interbreeding.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number. 1(part time)	Number. 1(part time)
Bionomist.....per annum.....	\$4,000.00	1(part time)	1(part time)
Botanist.....do.....	2,040.00	1(part time)	1(part time)
Plant breeder.....do.....	2,520.00	1	..
Plant breeder.....do.....	2,040.00	..	1(part time)
Assistant.....do.....	2,040.00	..	1(part time)
Assistant.....do.....	1,920.00	1	1(part time)
Assistant.....do.....	1,600.00	..	1(part time)
Assistant.....do.....	1,000.00	1	1(part time)
Wages:			
Miscellaneous temporary labor { per month..... per diem..... per hour.....}	{ 60.00 2.00 0.62½	2 .. ..	2 7 1
	7	17	
Salaries.....	\$4,720.00	\$3,851.66	
Wages.....	720.00	563.25	
Other objects of expenditure:			
Traveling expenses.....	720.00	738.97	
Equipment and material.....	600.00	1,135.26	
Miscellaneous items.....	740.00	1,191.95	
Total.....	7,500.00	7,481.09	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																																								
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																																																																																																										
<i>New Zealand flax.</i>																																																																																																																																																										
<table border="1"> <thead> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1920.</th><th>Expended, 1918.*</th></tr> </thead> <tbody> <tr> <td>Salaries:</td><td></td><td></td><td></td></tr> <tr> <td>Scientific assistant.....per annum..</td><td>\$1,500.00</td><td>1 <i>Number.</i></td><td>-- <i>Number.</i></td></tr> <tr> <td></td><td></td><td>1</td><td>--</td></tr> <tr> <td>Salaries.....</td><td></td><td>\$1,500.00</td><td>--</td></tr> <tr> <td>Other objects of expenditure:</td><td></td><td></td><td></td></tr> <tr> <td>Traveling expenses.....</td><td></td><td>500.00</td><td>--</td></tr> <tr> <td>Equipment and material.....</td><td></td><td>800.00</td><td>--</td></tr> <tr> <td>Miscellaneous items.....</td><td></td><td>200.00</td><td>--</td></tr> <tr> <td>Total.....</td><td></td><td>3,000.00</td><td>--</td></tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.*	Salaries:				Scientific assistant.....per annum..	\$1,500.00	1 <i>Number.</i>	-- <i>Number.</i>			1	--	Salaries.....		\$1,500.00	--	Other objects of expenditure:				Traveling expenses.....		500.00	--	Equipment and material.....		800.00	--	Miscellaneous items.....		200.00	--	Total.....		3,000.00	--																																																																																																																		
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* No appropriation for fiscal year 1918.																																																																																																																																																										
(129) For the investigation, testing, and improvement of plants yielding drugs, spices, poisons, oils, and related products and by-products, and for general physiological and fermentation investigations ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1</i> )-----	\$58,820.00																																																																																																																																																									
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1910.

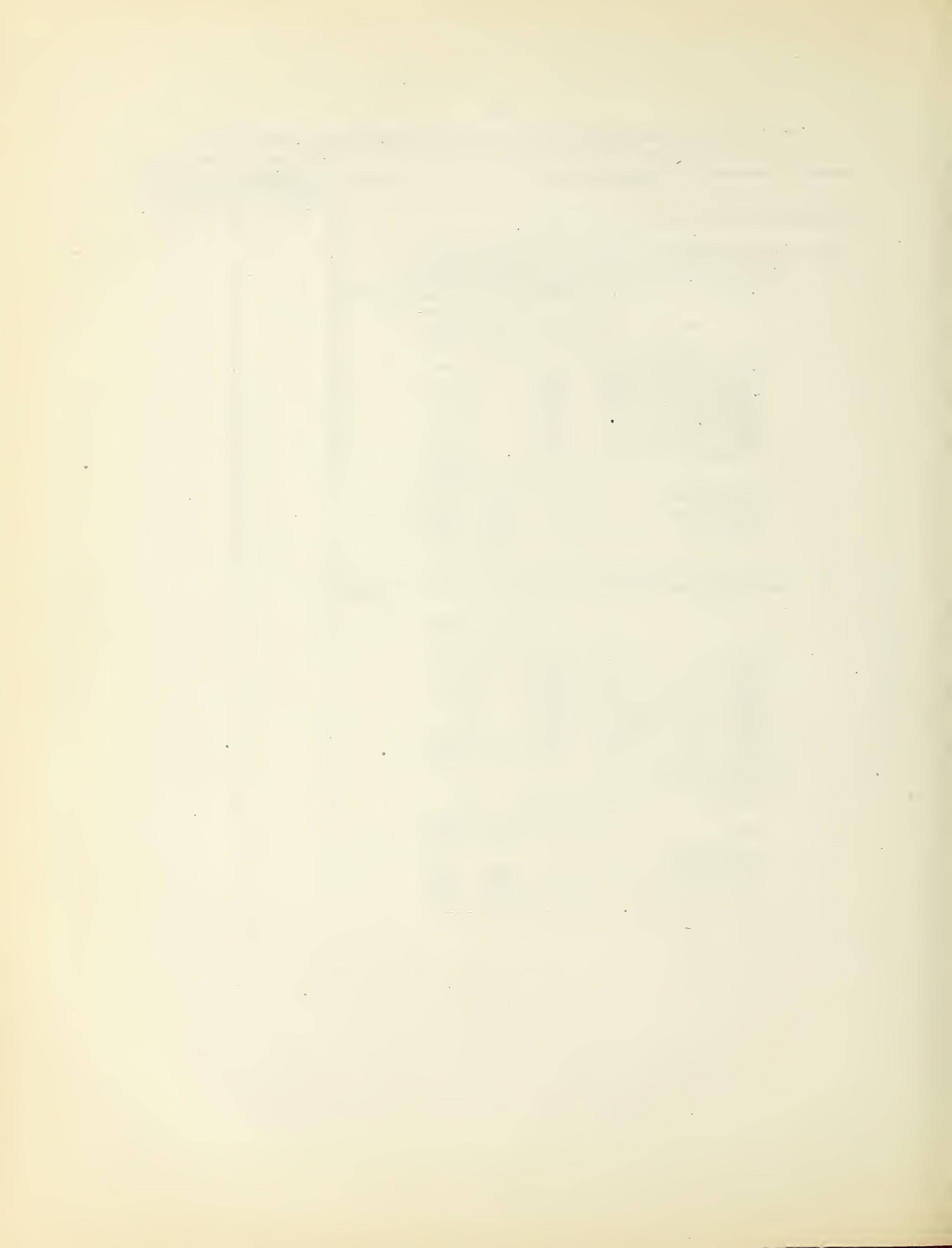
*General Expenses, Bureau of Plant Industry—Continued.*

(130) For crop technological investigations, including the study of plant-infesting nematodes (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1*) ..... \$24,940.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>			
Agricultural technologist in charge.....per annum..	\$4,000.00	1	1
Technologist.....do.....	3,000.00	1	1
Technologist.....do.....	2,500.00	--	1 (parttime)
Plant morphologist.....do.....	2,520.00	1	1
Plant morphologist.....do.....	1,860.00	1	--
Nematologist.....do.....	1,800.00	--	1 (temp.)
Pathologist.....do.....	1,620.00	--	1
Assistant.....do.....	1,560.00	1	1
Assistant.....do.....	1,200.00	1	1 (temp.)
Assistant.....do.....	1,000.00	1	1
Preparators, \$840 to \$660.....do.....	25.00	6	6 (1 temp.)
Student assistants.....per month..		--	9 (temp.)
		13	24
<b>Salaries</b> .....		\$19,760.00	\$18,276.83
<b>Other objects of expenditure:</b>			
Traveling expenses.....		2,500.00	789.14
Equipment and material.....		2,235.00	2,302.83
Miscellaneous items.....		445.00	1,072.57
<b>Total</b> .....		24,940.00	22,441.37

(131) For biophysical investigations in connection with the various lines of work herein authorized (*same acts*) ..... 32,500.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>			
Physicist in charge.....per annum..	\$4,000.00	1	1
Biophysicist.....do.....	2,760.00	2	--
Assistant.....do.....	2,520.00	1	2
Assistant.....do.....	2,500.00	1	1 (temp.)
Assistant.....do.....	2,280.00	--	1
Assistant.....do.....	2,040.00	1	1
Assistant.....do.....	1,620.00	1	1
Assistant.....do.....	1,380.00	1	1
Assistants.....do.....	1,200.00	2	3 (1 temp.)
Computer.....per month..	110.00	1	1
Agent.....do.....	125.00	1 (temp.)	1 (temp.)
Agent.....do.....	110.00	1 (temp.)	1 (temp.)
Agent.....do.....	100.00	--	2 (temp.)
<b>Wages:</b>			*
Miscellaneous temporary labor—			
\$85 to \$70.....do.....		1	2
\$4.50 to \$2.80.....per diem.....		--	8
\$0.35 to \$0.25.....per hour.....		1	5
		15	31
<b>Salaries</b> .....		\$23,380.00	\$22,263.29
<b>Wages</b> .....		700.00	1,239.78
<b>Other objects of expenditure:</b>			
Traveling expenses.....		4,000.00	2,588.91
Equipment and material.....		2,900.00	2,557.10
Miscellaneous items.....		1,520.00	3,281.12
<b>Total</b> .....		32,500.00	31,930.20



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																												
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(132) For studying and testing commercial seeds, including the testing of samples of seeds of grasses, clover, or alfalfa, and lawn-grass seeds secured in the open market, and where such samples are found to be adulterated or misbranded the results of the tests shall be published, together with the names of the persons by whom the seeds were offered for sale, and for carrying out the provisions of the Act approved August twenty-fourth, nineteen hundred and twelve, entitled "An Act to regulate foreign commerce by prohibiting the admission into the United States of certain adulterated grain and seeds unfit for seeding purposes" (Thirty-seventh Statutes at Large, page five hundred and six) ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1</i> )-----	\$36,680.00																																																																																																																													
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(133) For the investigation and improvement of cereals and methods of cereal production, and the study of cereal diseases, and for the investigation of the cultivation and breeding of flax for seed purposes, including a study of flax diseases, and for the investigation and improvement of broom corn and methods of broom-corn production, [§441,505] §432,505: <i>Provided</i> , That \$40,000 shall be set aside for the study of corn improvement and methods of corn production: <i>Provided also</i> , That \$100,000 shall be set aside for the investigation and control of the diseases of wheat, oats, and barley known as black rust and stripe rust: <i>Provided also</i> , That \$150,000 shall be set aside for the destruction of vegetation from which such rust spores originate [§], which sum shall be immediately available]: <i>Provided also</i> , That \$25,000 shall be set aside for the investigation of corn root and stalk diseases and for the inauguration of such control measures as may be found necessary ( <i>same acts</i> )-----	432,505.00																																																																																																																													
NOTE.—There is an apparent decrease in the above item of \$9,000 due to the transfer to the statutory roll of 6 clerks of class 1, 1 clerk at \$1,080, and 1 laborer at \$720.																																																																																																																														
The immediately available clause in the proviso setting aside \$150,000 for the destruction of vegetation from which rust spores originate is omitted.																																																																																																																														



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Plant Industry—Continued**Cereal investigations.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Cerealist in charge.....per annum..	\$4,000.00	1 (part time)	1 (temp.)
Cerealist in charge.....do.....	3,500.00	..	..
Agronomist.....do.....	3,240.00	1	..
Agronomist.....do.....	3,000.00	1	1
Agronomist.....do.....	2,760.00	2	3
Agronomist.....do.....	2,400.00	1	1
Agronomist.....do.....	2,260.00	1	1
Agronomist.....do.....	2,040.00	2	1 (temp.)
Agronomist.....do.....	1,800.00	..	1
Pathologist.....do.....	3,000.00	1	..
Pathologist.....do.....	2,760.00	..	1 (pt. time)
Pathologist.....do.....	2,520.00	1	1
Pathologist.....do.....	2,400.00	1	..
Pathologist.....do.....	2,220.00	1	..
Pathologist.....do.....	2,040.00	1	1 (pt. time)
Pathologist.....do.....	1,860.00	1	..
Farm superintendents.....do.....	2,280.00	2	2
Scientific assistant.....do.....	2,220.00	..	1
Scientific assistant.....do.....	2,040.00	1	1
Scientific assistants.....do.....	1,860.00	2	..
Scientific assistants.....do.....	1,800.00	1	2
Scientific assistants.....do.....	1,620.00	..	9 (3 temp.; 2 pt. time)
Scientific assistant.....do.....	1,700.00	1	1
Scientific assistant.....do.....	1,500.00	1	1
Scientific assistants.....do.....	1,440.00	1	2 (temp.)
Scientific assistant.....do.....	1,200.00	1	1
Technologist.....do.....	1,800.00	..	1 (temp.)
Agriculturist.....do.....	1,700.00	1	1
Agent.....do.....	1,800.00	1	1
Agent.....do.....	1,500.00	1	1
Agent.....do.....	1,440.00	1	1
Agent.....do.....	1,250.00	1	1
Agent.....do.....	1,200.00	1	1
Assistant.....do.....	1,260.00	..	1
Clerks f.....do.....	1,200.00	..	6 (1 pt. time)
Clerk f.....do.....	1,080.00	..	1
Clerk *.....do.....	900.00	..	1
Field assistant.....do.....	1,680.00	1	..
Field assistant.....do.....	1,420.00	..	1
Field assistant.....per month..	135.00	..	1
Field assistants.....do.....	125.00	..	6 (2 temp.; 3 part time)
Field assistants.....do.....	100.00	2	4 (2 temp.)
Junior chemists.....do.....	100.00	..	4 (temp.)
Messenger boy*.....per annum..	480.00	..	1
Agronomist, clerks, agents, field assistants, teamster, messenger boys and colla- borators—			
\$960 to \$1.....do.....		17	33 (12 temp.; 4 part time)
\$3.50 to \$3.....per diem..		..	2 (1 temp.; 1 part time)
Wages:			
Laborer*.....per annum..	780.00	..	1
Laborer f.....do.....	720.00	..	1
Miscellaneous temporary labor—			
\$900 to \$720.....do.....		..	2
\$85 to \$25.....per month..		7	28
\$6 to \$1.25.....per diem..		3	95
		60	227
Salaries.....		\$76,946.00	\$81,726.91
Wages.....		2,280.00	7,827.65
Other objects of expenditure:			
Stationery.....		2,450.00	956.31
Traveling expenses.....		30,000.00	11,743.44
Equipment and material.....		2,294.00	12,264.88
Miscellaneous items.....		3,535.00	11,803.36
Total.....		117,505.00	126,322.55

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Plant Industry—Continued**Corn improvement.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<i>Salaries:</i>			
Physiologist in charge.....per annum..	\$3,000.00	1	
Physiologist in charge.....do.....	2,760.00	--	1
Physiologists.....do.....	2,400.00	2	
Physiologists.....do.....	2,100.00	--	2
Scientific assistants.....do.....	1,620.00	1	2
Scientific assistants.....do.....	1,500.00	3	2
Scientific assistants.....do.....	1,440.00	2	6 (1 part time)
Scientific assistant.....do.....	1,400.00	--	1
Scientific assistant.....do.....	1,380.00	1	1
Scientific assistant.....do.....	1,320.00	1	1
Scientific assistant.....do.....	1,200.00	1	1 (temp.)
Assistant.....do.....	1,680.00	1	--
Clerk.....do.....	1,000.00	--	1
Agent.....do.....	1,400.00	--	1 (part time)
Agents—\$3 to \$2.50.....per diem		4	3 (temp.)
<i>Wages:</i>			
Miscellaneous temporary labor—			
\$4.40 to \$1.25.....do.....		1	54
\$0.35 to \$0.15.....per hour.....		--	8
		18	84
<i>Salaries.....</i>			
Wages.....		\$23,380.00	\$21,762.33
		800.00	692.69
<i>Other objects of expenditure:</i>			
Stationery.....		600.00	358.47
Traveling expenses.....		10,000.00	9,659.25
Equipment and material.....		3,000.00	2,517.19
Miscellaneous items.....		2,220.00	5,010.07
<b>Total</b> .....		<b>40,000.00</b>	<b>40,000.00</b>

*Black rust and stripe rust.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<i>Salaries:</i>			
Pathologist.....per annum..	\$3,000.00	1	
Pathologist.....do.....	2,760.00	--	1 (part time)
Pathologist.....do.....	2,040.00	--	1 (part time)
Pathologist.....do.....	1,860.00	1	--
Pathologists.....do.....	1,800.00	5	--
Scientific assistant.....do.....	1,800.00	1	--
Scientific assistants.....do.....	1,620.00	--	3 (2 temp.)
Scientific assistant.....do.....	1,400.00	--	1 (temp.)
Physiologist.....do.....	3,000.00	1	--
Physiologist.....do.....	1,800.00	1	--
Assistants.....do.....	1,200.00	3	1 (part time)
Plant breeder.....do.....	2,610.00	1	--
Field assistants.....per month.....	125.00	--	5 (1 temp., 3 part time)
Assistants, agents, and collaborators—			
\$960 to \$1.....per annum.....		10	7 (1 temp., 5 part time)
\$2.50.....per diem.....		--	1 (temp.)
<i>Wages:</i>			
Miscellaneous temporary labor—			
\$3 to \$0.80.....do.....		--	13
		24	33
<i>Salaries.....</i>			
Wages.....		\$58,540.00	\$11,651.08
			118.59
<i>Other objects of expenditure:</i>			
Stationery.....		3,105.00	
Traveling expenses.....		28,120.00	4,936.96
Equipment and material.....		2,700.00	1,523.22
Miscellaneous items.....		7,535.00	1,466.61
<b>Total</b> .....		<b>100,000.00</b>	<b>19,696.46</b>



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Plant Industry—Continued.**Barberry eradication.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:			
Pathologist.....per annum.....	\$3,000.00	1	Number.
Field assistants.....per month.....	150.00	18 (temp.)	..
Field assistants.....do.....	125.00	20 (temp.)	..
Assistants, \$85 to \$65.....do.....		2	..
		41	..
Salaries.....		\$64,280.00	.....
Other objects of expenditure:			
Stationery.....		4,700.00	.....
Traveling expenses.....		43,994.00	.....
Equipment and material.....		15,106.00	.....
Miscellaneous items.....		21,920.00	.....
Total.....		150,000.00	.....

\* No appropriation for fiscal year 1918.

*Corn diseases.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:			
Pathologist.....per annum.....	\$3,000.00	1	Number.
Scientific assistants.....do.....	1,620.00	11 (2 temp.)	..
		12	..
Salaries.....		\$14,900.00	.....
Other objects of expenditure:			
Stationery.....		745.00	.....
Traveling expenses.....		5,813.00	.....
Equipment and material.....		1,900.00	.....
Miscellaneous items.....		1,642.00	.....
Total.....		25,000.00	.....

\* No appropriation for the fiscal year 1918.

- (134) For the investigation and improvement of tobacco and the methods of tobacco production and handling (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1*) - \$32,000.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Physiologist in charge.....per annum.....	\$3,000.00	1 (part time)	Number.
Technologist.....do.....	2,520.00	1	1 (part time)
Technologist.....do.....	2,250.00	-	1
Technologist.....do.....	1,800.00	1	1
Assistant.....do.....	2,040.00	1	..
Assistants.....do.....	1,800.00	2	3
Assistant.....do.....	1,620.00	1	1 (part time)
Assistant.....do.....	1,440.00	1	1
Assistant.....do.....	1,380.00	-	1
Assistants.....do.....	1,200.00	2	2
Assistant.....do.....	1,020.00	1	1
Agent.....do.....	1,200.00	1	1
Assistants and collaborators.....		6	10 (2 temp.)
\$960 to \$12.....do.....		1	..
\$0.50.....per hour.....			
Wages:			
Miscellaneous temporary labor—			
\$60 to \$30.....per month.....		2	2
\$3 to \$1.20.....per diem.....		1	3
		22	28
Salaries.....		\$24,134.00	\$22,974.25
Wages.....		1,400.00	901.70
Other objects of expenditure:			
Stationery.....		200.00	346.91
Traveling expenses.....		2,200.00	2,425.45
Equipment and material.....		2,841.00	1,782.23
Miscellaneous items.....		1,225.00	2,539.04
Total.....		32,000.00	30,969.58



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																								
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																																																										
(135) For testing and breeding fibrous plants, including the testing of flax straw and hemp, in cooperation with the North Dakota Agricultural College, which may be used for paper making ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1</i> )-----	\$16,760.00																																																																																																									
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Wages:																																																																																																										
Miscellaneous temporary labor—																																																																																																										
\$75 to \$25.....per month.....	1	8	..																																																																																																							
\$8 to \$2.....per diem.....	..	9	..																																																																																																							
		<hr/> 8	<hr/> 27																																																																																																							
Salaries.....		<hr/> \$13,720.00	<hr/> \$12,633.69																																																																																																							
Wages.....		500.00	3,166.68																																																																																																							
Other objects of expenditure:																																																																																																										
Traveling expenses.....		5,200.00	3,124.07																																																																																																							
Equipment and material.....		2,090.00	2,384.20																																																																																																							
Miscellaneous items.....		2,860.00	1,672.84																																																																																																							
Total.....	24,280.00	22,981.48																																																																																																								
(137) For sugar-plant investigations, including studies of diseases and the improvement of the beet and beet seed, and methods of culture, and to determine for each sugar-beet area the agricultural operations required to insure a stable agriculture, [§64,115] §94,115: <i>Provided</i> , That not less than \$10,000 of this sum shall be used for the development and improvement of American strains of sugar-beet seed and for the establishment of a permanent sugar-beet seed industry in the United States: <i>Provided further</i> , That of this sum \$12,500 may be used for investigations in connection with the production of cane and sorghum sirup, including the breeding, culture, and diseases of cane and sorghum, and the utilization of cane and sorghum by-products ( <i>same acts</i> )-----	94,115.00																																																																																																									
NOTE.—There is an increase in the above item of \$30,000. It is proposed to use this amount as follows:																																																																																																										
(a) \$10,000 for sugar-beet nematode work. The food-production bill carries an item of \$10,000 for conducting this work during the fiscal year																																																																																																										



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																												
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																																																														
1919. It is a project of great importance irrespective of war emergency conditions. The sugar-beet nematode has been definitely located in four of the principal sugar-beet States—California, Utah, Idaho, and Colorado. It probably exists in other States and is causing losses to the sugar-beet industry amounting to several hundred thousand dollars annually. The infested areas are being mapped as rapidly as surveys can be made, and experiments and investigations are being conducted with a view to controlling the pest. A more complete life history of the nematode must be worked out before the most practical points of attack can be found. Definite results have been obtained in regard to certain control measures in given localities, but the investigation of soil treatments, crop rotations, and other control measures will require several years for its completion if the infested areas are to be adequately covered.																																																																																																														
(b) \$20,000 for the control of a new sugar-cane disease in Porto Rico. This increase represents the amount carried in the food-production bill for similar work during the current fiscal year. The appropriation should be continued for several years regardless of war conditions, in order to enable the department to make a thorough study of this disease, which threatens to destroy the sugar-cane industry of Porto Rico. Every effort also should be made to keep the disease from spreading to the mainland.																																																																																																														
<i>Sugar plant investigations.</i>																																																																																																														
<table border="1"> <thead> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1920.</th><th>Expended, 1918.</th></tr> </thead> <tbody> <tr> <td>Salaries:</td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr> <tr> <td>Pathologist in charge.....per annum..</td><td>\$3,240.00</td><td>1(part time)</td><td>1</td></tr> <tr> <td>Assistant.....do.....</td><td>2,760.00</td><td>2</td><td>1</td></tr> <tr> <td>Assistant.....do.....</td><td>2,500.00</td><td>2</td><td>..</td></tr> <tr> <td>Assistant.....do.....</td><td>2,280.00</td><td>2</td><td>1</td></tr> <tr> <td>Assistants.....do.....</td><td>2,040.00</td><td>2</td><td>2(1 pt.time)</td></tr> <tr> <td>Assistants.....do.....</td><td>1,800.00</td><td>3 (1 pt.time)</td><td>1</td></tr> <tr> <td>Assistant.....do.....</td><td>1,740.00</td><td>2</td><td>1</td></tr> <tr> <td>Assistant.....do.....</td><td>1,200.00</td><td>1</td><td>..</td></tr> <tr> <td>Agriculturist.....do.....</td><td>2,040.00</td><td>1</td><td>1</td></tr> <tr> <td>Technologist.....do.....</td><td>2,280.00</td><td>1</td><td>..</td></tr> <tr> <td>Clerk *......do.....</td><td>1,000.00</td><td>..</td><td>1</td></tr> <tr> <td>Agents, clerks, and collaborators— \$900 to \$1.....do.....</td><td></td><td>6</td><td>14 (2 temp.; 1 part time)</td></tr> <tr> <td>Wages:</td><td></td><td></td><td></td></tr> <tr> <td>Laborer*.....do.....</td><td>480.00</td><td>..</td><td>1</td></tr> <tr> <td>Miscellaneous temporary labor— \$75 to \$25.....per month..</td><td></td><td>5</td><td>7</td></tr> <tr> <td>\$2.60 to \$1.50.....per diem..</td><td></td><td>40</td><td>34</td></tr> <tr> <td></td><td></td><td>68</td><td>65</td></tr> <tr> <td>Salaries.....</td><td></td><td>\$34,604.00</td><td>\$18,560.33</td></tr> <tr> <td>Wages.....</td><td></td><td>4,710.00</td><td>3,312.54</td></tr> <tr> <td>Other objects of expenditures:</td><td></td><td></td><td></td></tr> <tr> <td>Stationery.....</td><td></td><td>1,500.00</td><td>373.57</td></tr> <tr> <td>Traveling expenses.....</td><td></td><td>19,000.00</td><td>6,253.03</td></tr> <tr> <td>Equipment and material.....</td><td></td><td>5,000.00</td><td>1,646.95</td></tr> <tr> <td>Miscellaneous items.....</td><td></td><td>6,801.00</td><td>2,460.68</td></tr> <tr> <td>Total.....</td><td></td><td>71,615.00</td><td>32,607.10</td></tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:		<i>Number.</i>	<i>Number.</i>	Pathologist in charge.....per annum..	\$3,240.00	1(part time)	1	Assistant.....do.....	2,760.00	2	1	Assistant.....do.....	2,500.00	2	..	Assistant.....do.....	2,280.00	2	1	Assistants.....do.....	2,040.00	2	2(1 pt.time)	Assistants.....do.....	1,800.00	3 (1 pt.time)	1	Assistant.....do.....	1,740.00	2	1	Assistant.....do.....	1,200.00	1	..	Agriculturist.....do.....	2,040.00	1	1	Technologist.....do.....	2,280.00	1	..	Clerk *......do.....	1,000.00	..	1	Agents, clerks, and collaborators— \$900 to \$1.....do.....		6	14 (2 temp.; 1 part time)	Wages:				Laborer*.....do.....	480.00	..	1	Miscellaneous temporary labor— \$75 to \$25.....per month..		5	7	\$2.60 to \$1.50.....per diem..		40	34			68	65	Salaries.....		\$34,604.00	\$18,560.33	Wages.....		4,710.00	3,312.54	Other objects of expenditures:				Stationery.....		1,500.00	373.57	Traveling expenses.....		19,000.00	6,253.03	Equipment and material.....		5,000.00	1,646.95	Miscellaneous items.....		6,801.00	2,460.68	Total.....		71,615.00	32,607.10		
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Plant Industry—Continued.**Cane and sorghum sirup.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Pathologist in charge.....per annum..	\$3,240.00	1 (pt.time)	..
Technologist.....do.....	2,500.00	1	1
Plant breeder.....do.....	2,280.00	1	..
Plant breeder.....do.....	2,200.00	..	1
Pathologist.....do.....	2,000.00	..	1 (temp.)
Assistant.....do.....	1,800.00	1 (pt.time)	..
Collaborators— \$120 to \$1.....do.....		5	5 (1 temp.)
Wages:			
Miscellaneous temporary labor— \$85 to \$60.....per month.....	1	2	
\$2.80 to \$0.60.....per diem.....	..	26	
		10	36
Salaries.....	\$5,904.00	\$5,134.07	
Wages.....	510.00	1,438.45	
Other objects of expenditure:			
Stationery.....	800.00	185.49	
Traveling expenses.....	3,000.00	1,895.85	
Equipment and material.....	1,000.00	1,665.39	
Miscellaneous items.....	1,286.00	1,659.24	
Total.....	12,500.00	11,978.49	

- (138) For investigations in economic and systematic botany and the improvement and utilization of wild plants and grazing lands [[\$23,100]] (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1) ----- \$22,200.00

NOTE.—There is an apparent decrease in the above item of \$900, due to the transfer of one artist to the statutory roll.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Botanist in charge.....per annum..	\$4,000.00	1	1
Botanist.....do.....	2,520.00	1	1
Agrostologist.....do.....	3,240.00	1	1
Assistants.....do.....	1,800.00	2 (1 pt.time)	3 (2 pt.time)
Assistant.....do.....	1,620.00	1	1
Artist*.....do.....	1,600.00	1	1
Clerks and assistants— \$900 and \$300.....do.....	900.00	..	1
		2 (temp.)	6 (3 temp.)
		9	15
Salaries.....	\$16,480.00	\$15,429.40	
Other objects of expenditures:			
Stationery.....	600.00	383.65	
Traveling expenses.....	1,800.00	484.45	
Equipment and material.....	1,756.00	2,172.48	
Miscellaneous items.....	1,564.00	2,300.65	
Total.....	22,200.00	20,770.63	

\* Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Plant Industry—Continued.*

(139) For the investigation and improvement of methods of crop production under subhumid, semiarid, or dry-land conditions, [§\$160,000] \$159,000: *Provided*, That the limitation in this act as to the cost of farm buildings shall not apply to this paragraph: *Provided further*, That no part of this appropriation shall be used in the free distribution, or propagation for free distribution, of cuttings, seedlings, or trees of willow, box elder, ash, caragana, or other common varieties of fruit, ornamental, or shelter-belt trees in the Northern Great Plains area, except for experimental or demonstration purposes in the States of North and South Dakota west of the one hundredth meridian, and in Montana and Wyoming east of the five-thousand-foot contour line (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1–5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1–4; Oct. 1, 1918, vol. 40, p. 980, sec. 1*) ----- \$159,000.00

NOTE.—There is an apparent decrease in the above item of \$1,000, due to the transfer to the statutory roll of one clerk at that salary.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Agriculturist in charge.....per annum..	\$1,000.00	1	1
Agriculturist.....do.....	3,240.00	1	1
Agronomist.....do.....	2,640.00	1	1(part time)
Physiologist.....do.....	2,100.00	1	1
Farm superintendent.....do.....	2,500.00	...	1
Farm superintendent.....do.....	2,400.00	1	1
Farm superintendents.....do.....	2,280.00	1	2
Assistant.....do.....	2,400.00	1	1
Assistants.....do.....	2,280.00	3	2
Assistants.....do.....	2,040.00	7	2
Assistants.....do.....	1,860.00	4	...
Assistants.....do.....	1,800.00	...	7
Assistant.....do.....	1,700.00	1	1
Assistants.....do.....	1,620.00	2	5
Assistants.....do.....	1,600.00	5	1
Assistant.....do.....	1,500.00	1	...
Assistants.....do.....	1,440.00	2	...
Assistants.....do.....	1,380.00	...	3 (2 temp.)
Assistants.....do.....	1,200.00	3	5 (2 temp.)
Assistants.....do.....	1,080.00	...	3(1 part time)
Assistant.....do.....	1,000.00	1	...
Agents.....do.....	1,800.00	2	1
Teamster.....do.....	1,440.00	1	1
Teamster.....per month.....	100.00	...	1(part time)
Teamster.....do.....	85.00	...	1(part time)
Clerk*.....per annum.....	1,000.00	...	1
Orchardist, collaborators, caretakers, and messcooks— \$960 to \$12.....do.....	8	24(15 temp.)	
Wages:			
Carpenter.....do.....	1,400.00	...	1(temp.)
Miscellaneous temporary labor— \$85 to \$25.....per month.....	59	129	
\$7 to \$0.85.....per diem.....	...	127	
	106	324	
Salaries.....	879,154.00	\$67,536.80	
Wages.....	38,745.00	28,750.30	
Other objects of expenditure:			
Traveling expenses.....	10,000.00	8,725.06	
Equipment and material.....	26,000.00	27,702.87	
Miscellaneous items.....	5,101.00	27,029.47	
Total.....	159,000.00	159,744.50	

\*Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.				Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919
<i>General Expenses, Bureau of Plant Industry—Continued.</i>					
(140) For investigations in connection with western irrigation agriculture, the utilization of lands reclaimed under the reclamation act, and other areas in the arid and semi-arid regions ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1</i> )	\$73, 580. 00				
Employees.	Rate.	Estimated, 1920.	Expended, 1918.		
Salaries:		Number.	Number.		
Agriculturist in charge.....per annum..	\$3, 500. 00	1	1		
Agriculturist.....do.....	1, 410. 00	1	..		
Agriculturist.....do.....	1, 200. 00	..	1		
Pomologist.....do.....	2, 340. 00	..	1(pt. time)		
Farm superintendent.....do.....	2, 580. 00	1	..		
Farm superintendent.....do.....	2, 440. 00	1	..		
Farm superintendents.....do.....	2, 280. 00	2	1		
Farm superintendent.....do.....	2, 040. 00	1	..		
Farm superintendent.....do.....	1, 860. 00	1	..		
Farm superintendent.....do.....	1, 800. 00	..	1		
Assistant.....do.....	1, 680. 00	1	..		
Assistant.....do.....	1, 620. 00	..	1		
Assistants.....do.....	1, 440. 00	1	2		
Assistant.....do.....	1, 400. 00	..	1		
Assistant.....do.....	1, 200. 00	..	1 (temp.)		
Assistant.....do.....	1, 080. 00	..	1		
Assistant.....do.....	1, 020. 00	..	1		
Assistant.....do.....	1, 000. 00	..	1		
Scientific assistants.....do.....	1, 440. 00	..	2 (1 temp.)		
Scientific assistant.....do.....	1, 200. 00	..	1 (temp.)		
Clerk*.....do.....	1, 800. 00	..	1		
Teamsters.....do.....	1, 020. 00	..	3 (temp.)		
Agriculturist, collaborators, caretakers, and mess cooks, \$360 to \$1.....do.....	..	..	12 (4 temp.)		
Wages:					
Laborer*.....do.....	720. 00	..	2		
Laborer*.....do.....	660. 00	..	1		
Miscellaneous temporary labor—					
\$900 to \$300.....do.....	56	90			
\$8 to \$1.....per diem.....	..	135			
	66	260			
Salaries.....	\$21, 548. 00	\$23, 025. 55			
Wages.....	37, 800. 00	22, 572. 05			
Other objects of expenditure:					
Stationery.....	1, 000. 00	766. 12			
Traveling expenses.....	5, 000. 00	2, 693. 79			
Equipment and material.....	6, 000. 00	14, 614. 81			
Miscellaneous items.....	2, 232. 00	11, 706. 45			
Total.....	73, 580. 00	75, 388. 77			
* Transferred to statutory roll in Agricultural act for 1919.					
(141) For the investigation and improvement of fruits, and the methods of fruit growing, harvesting, and, in cooperation with the Bureau of Markets, studies of the behavior of fruits during the processes of marketing and while in commercial storage, [§§85,280] §83,200: <i>Provided</i> , That \$9,000 of said amount shall be available for the investigation and improvement of the peach, and methods of growing, harvesting, packing, and shipping of same ( <i>same acts</i> )	83, 200. 00				
NOTE.—There is an apparent decrease in the above item of \$2,080, due to the transfer to the statutory roll of 1 clerk of class 3 and 1 messenger					



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Plant Industry—Continued.**Pomological Investigations.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Horticulturist in charge.....per annum..	\$4,000.00	1(part time)	1(part time)
Physiologists.....do.....	3,240.00	1	2(1pt. time)
Physiologists.....do.....	2,760.00	2	..
Physiologist.....do.....	2,520.00	..	1
Physiologists.....do.....	2,040.00	2(part time)	1
Physiologist.....do.....	2,000.00	1	..
Pomologist.....do.....	3,240.00	1	..
Pomologists.....do.....	3,000.00	1	2
Pomologist.....do.....	2,760.00	1	1
Pomologist.....do.....	2,400.00	1	1(part time)
Pomologists.....do.....	2,280.00	1(part time)	2
Botanist.....do.....	2,520.00	1(part time)	1
Refrigeration technologist.....do.....	2,500.00	..	1
Horticultural superintendent.....do.....	1,800.00	1(part time)	..
Assistant.....do.....	2,760.00	2(1pt. time)	1(part time)
Assistants.....do.....	1,800.00	2(1pt. time)	4
Assistants.....do.....	1,200.00	7(4 pt. time, 1 temp.)	1
Assistant.....do.....	1,000.00	1	..
Scientific assistant.....do.....	1,800.00	1	1
Scientific assistant.....do.....	1,620.00	1	1
Scientific assistant.....do.....	1,500.00	1	1
Scientific assistants.....do.....	1,440.00	1	6(1 temp., 4 part time)
Scientific assistants.....do.....	1,200.00	1	4(3 pt. time)
Scientific assistant.....per diem.....	8.00	..	1 (temp.)
Superintendent.....per annum.....	1,620.00	1	1
Superintendent.....do.....	1,500.00	1	1
Chemist.....do.....	1,440.00	1(part time)	1(part time)
Field assistant.....per month.....	200.00	..	1 (temp.)
Field assistant.....do.....	100.00	..	1 (temp.)
Field assistant.....do.....	85.00	..	1 (temp.)
Clerk f.....per annum.....	1,600.00	..	1
Messenger boy.....do.....	480.00	..	1
Messenger boys, telephone operators, and collabora- tors, \$900 to \$12.....do.....	..	4	10 (1 temp., 1 part time)
Wages:			
Miscellaneous temporary labor— \$85 to \$35.....per month.....	..	..	3
\$4.50 to \$1.....per diem.....	..	..	36
		36	90
Salaries.....		\$41,505.00	\$55,963.13
Wages.....			2,057.50
Other objects of expenditure:			
Stationery.....		140.00	1,969.79
Traveling expenses.....		17,575.00	11,572.26
Equipment and material.....		7,700.00	9,771.17
Miscellaneous items.....		7,280.00	13,499.71
Total.....		74,200.00	97,933.56

† Recommended for transfer to statutory roll in estimates for 1920.

*Pecan Culture.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Nut culturist.....per annum.....	\$2,520.00	1	..
Nut culturist.....do.....	2,040.00	..	1
Scientific assistant.....do.....	1,620.00	1	1
Wages:			
Miscellaneous temporary labor— \$3 to \$2.....per diem.....	..	5	..
		2	7
Salaries.....		\$4,140.00	\$3,538.99
Wages.....			68.50
Other objects of expenditure:			
Traveling expenses.....		2,000.00	1,879.80
Equipment and material.....		1,000.00	2,379.32
Miscellaneous items.....		1,860.00	1,060.03
Total.....		8,000.00	8,926.64



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920--Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Plant Industry—Continued.*

- (142) To cultivate and care for the gardens and grounds of the Department of Agriculture in the city of Washington, including the keep and lighting of the grounds and the construction, surfacing, and repairing of roadways and walks; and to erect, manage, and maintain conservatories, greenhouses, and plant and fruit propagating houses on the grounds of the Department of Agriculture in the city of Washington (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1*) ----- \$11,690.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Assistant in charge.....per annum.....	\$2,640.00	1	
Assistant in charge.....do.....	2,400.00	..	1(part time)
Wages:			
Miscellaneous temporary labor—			
\$5 to \$2.50.....per diem.....		4	10
		5	II
Salaries.....	\$2,640.00		\$1,815.00
Wages.....	80.00		172.50
Other objects of expenditure:			
Stationery.....	84.00		174.69
Equipment and material.....	6,021.00		5,507.80
Miscellaneous items.....	1,504.00		3,958.40
Construction work.....	a 1,361.00		.....
Total.....	11,690.00		11,628.39

<sup>a</sup> This construction work will consist of the following building: 1 grapery, containing 11,340 cubic feet, at 12 cents per cubic foot, \$1,361.

- (143) For horticultural investigations, including the study of producing and harvesting truck and related crops, including potatoes, and, in cooperation with the Bureau of Markets, studies of the behavior of vegetables while in the processes of marketing and in commercial storage, and the study of landscape and vegetable gardening, floriculture, and related subjects [§60,540] (*same acts*) ----- 88,340.00

NOTE.—There is an apparent increase in the above item of \$27,800, but taking into consideration the transfer to the statutory roll of 1 clerk of class 1 and 1 clerk at \$1,000, amounting to \$2,200, the actual increase is \$30,000. This is the amount carried in the food production bill for "locating Irish potato seed stocks." It is proposed to transfer the item to the regular appropriation bill as the work will necessarily require several years for its completion.

There is urgent need for the production of a sufficiently large second crop of potatoes in the South to supply the normal consuming demands in that region. If this need were met by the southern growers it would obviate the necessity for long-distance shipments of potatoes from the North and West during the winter season, thereby releasing for more urgent purposes a large number of freight cars. The present practices of the growers of second-crop seed in the South are responsible in large measure for the inadequacy of the crop produced. It is believed that the work proposed, conducted in cooperation with State experiment stations at various points in Arkansas, Oklahoma, Louisiana, Texas, Alabama, and Florida will serve to demonstrate the possibility of very materially increasing the production of second-crop potatoes. Sufficient study has been given to the problem to make it possible to outline the work in such a way as almost certainly to meet and solve some of the difficulties that have heretofore stood in the way of a larger production of late potatoes in this section.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Bureau of Plant Industry—Continued.</i>		

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>			
Horticulturist in charge.....per annum..	\$4,000.00	1 (pt. time)	1 (pt. time)
Horticulturist.....do.....	3,240.00	1	
Horticulturist.....do.....	3,000.00	1	1 (pt. time)
Horticulturist.....do.....	2,520.00	1	1 (pt. time)
Horticulturist.....do.....	2,460.00	1 (pt. time)	1 (pt. time)
Horticulturist.....do.....	2,280.00	1	
Horticulturist.....do.....	2,100.00	1	1 (pt. time)
Horticulturist.....do.....	2,040.00	1	1
Horticulturist.....do.....	2,000.00	--	1 (pt. time)
Physiologist.....do.....	2,760.00	1 (pt. time)	--
Physiologist.....do.....	2,040.00	2 (pt. time)	--
Agriculturist.....do.....	2,760.00	1	1
Agronomists.....do.....	2,040.00	3	--
Superintendents.....do.....	1,800.00	3	1
Assistants.....do.....	1,800.00	2	2 (1 pt. time)
Scientific assistants.....do.....	1,860.00	1	--
Scientific assistants.....do.....	1,620.00	1	3 (2 pt. time)
Scientific assistants.....do.....	1,440.00	1	2 (1 temp.)
Scientific assistant.....do.....	1,320.00	1	--
Scientific assistant.....do.....	1,200.00	1 (pt. time)	1
Scientific assistant.....do.....	1,000.00	--	1
Chemist.....do.....	1,440.00	1 (pt. time)	1 (pt. time)
Clerk†.....do.....	1,200.00	--	1 (temp.)
Clerk†.....do.....	1,000.00	--	3 (pt. time)
Plant propagator.....do.....	1,080.00	1	1 (pt. time)
Field assistant.....per month..	100.00	--	1 (pt. time)
Draftsmen, clerks, and collaborators—			
\$900.....per annum..		1	1 (pt. time)
\$75 to \$2.50.....per month..		3	5 (4 temp.)
<b>Wages</b>			
Miscellaneous temporary labor—			
\$90 to \$60.....do.....		3	10
\$5 to \$1.50.....per diem..		20	17
		53	58
Salaries.....		\$40,430.00	\$34,300.44
Wages.....		5,400.00	3,154.34
<b>Other objects of expenditure:</b>			
Traveling expenses.....		11,150.00	6,433.82
Equipment and material.....		12,900.00	7,892.50
Miscellaneous items.....		18,460.00	10,958.90
<b>Total.....</b>		88,340.00	62,740.00

† Recommended for transfer to statutory roll in estimates for 1920.

- (144) For continuing the necessary improvements to establish and maintain a general experiment farm and agricultural station on the Arlington estate, in the State of Virginia, in accordance with the provisions of the Act of Congress approved April eighteenth, nineteen hundred, \$21,900: *Provided*, That the limitation in this Act as to the cost of farm buildings shall not apply to this paragraph (*acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1*) ----- \$21,900.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>			
Assistant in charge.....per annum..	\$2,400.00	1	1
Assistants.....do.....	1,200.00	2 (temp.)	2 (1 pt. time)
Assistants.....do.....	1,000.00	1 (temp.)	2
<b>Wages:</b>			
Miscellaneous temporary labor—			
\$900 to \$600.....per annum..		--	8
\$25.....per month..		--	2
\$4.50 to \$1.25.....per diem..		9	135
		13	150
Salaries.....		\$3,600.00	\$5,312.31
Wages.....		3,800.00	11,654.03
<b>Other objects of expenditure:</b>			
Traveling expenses.....		200.00	29.68
Equipment and material.....		3,000.00	1,338.64
Miscellaneous items.....		11,300.00	3,331.39
<b>Total.....</b>		21,900.00	21,666.05



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																																																																				
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																																																																																																																																						
(145) For investigations in foreign seed and plant introduction, including the study, collection, purchase, testing, propagation, and distribution of rare and valuable seeds, bulbs, trees, shrubs, vines, cuttings, and plants from foreign countries and from our possessions, and for experiments with reference to their introduction and cultivation in this country [§91,440] (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1)-----	\$82,700.00																																																																																																																																																																																					
NOTE.—There is an apparent decrease in the above item of \$8,740, due to the transfer to the statutory roll of 1 clerk of class 4, 2 clerks of class 1, 2 clerks at \$1,000 each, 3 messenger boys at \$480 each, and 1 skilled laborer at \$1,100.																																																																																																																																																																																						
<table border="1"> <thead> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1920.</th><th>Expended. 1918.</th></tr> </thead> <tbody> <tr> <td>Salaries:</td><td></td><td></td><td><i>Number.</i></td></tr> <tr> <td>Agricultural explorer in charge.....per annum..</td><td>\$1,000.00</td><td>1</td><td>1</td></tr> <tr> <td>Agricultural explorer.....do.....</td><td>2,500.00</td><td>..</td><td>1</td></tr> <tr> <td>Agricultural explorer.....do.....</td><td>2,040.00</td><td>..</td><td>1</td></tr> <tr> <td>Agricultural explorer.....do.....</td><td>1,200.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Plant introducer.....do.....</td><td>3,500.00</td><td>1</td><td>..</td></tr> <tr> <td>Plant introducer.....do.....</td><td>3,240.00</td><td>..</td><td>1</td></tr> <tr> <td>Plant introducer.....do.....</td><td>2,520.00</td><td>1</td><td>1</td></tr> <tr> <td>Assistant.....do.....</td><td>3,500.00</td><td>1</td><td>1</td></tr> <tr> <td>Assistant.....do.....</td><td>2,400.00</td><td>..</td><td>1</td></tr> <tr> <td>Assistants.....do.....</td><td>2,280.00</td><td>2</td><td>1</td></tr> <tr> <td>Assistant.....do.....</td><td>2,040.00</td><td>..</td><td>1</td></tr> <tr> <td>Assistant.....do.....</td><td>1,860.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistant.....do.....</td><td>1,680.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistants.....do.....</td><td>1,620.00</td><td>1</td><td>3 (2 part time.)</td></tr> <tr> <td>Assistant.....do.....</td><td>1,600.00</td><td>..</td><td>1</td></tr> <tr> <td>Assistants.....do.....</td><td>1,440.00</td><td>2</td><td>2</td></tr> <tr> <td>Assistants.....do.....</td><td>1,200.00</td><td>1</td><td>2</td></tr> <tr> <td>Assistant.....do.....</td><td>1,100.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistants.....do.....</td><td>1,000.00</td><td>1</td><td>2 (1 temp.)</td></tr> <tr> <td>Station superintendents.....do.....</td><td>2,280.00</td><td>2</td><td>..</td></tr> <tr> <td>Station superintendents.....do.....</td><td>2,040.00</td><td>1</td><td>2 (part time)</td></tr> <tr> <td>Station superintendent.....do.....</td><td>1,860.00</td><td>1</td><td>..</td></tr> <tr> <td>Station superintendents.....do.....</td><td>1,800.00</td><td>1</td><td>2 (part time)</td></tr> <tr> <td>Station superintendent.....do.....</td><td>1,600.00</td><td>..</td><td>1</td></tr> <tr> <td>Plant propagator.....do.....</td><td>1,860.00</td><td>1</td><td>..</td></tr> <tr> <td>Plant propagator.....do.....</td><td>1,620.00</td><td>..</td><td>1</td></tr> <tr> <td>Plant propagator.....do.....</td><td>1,080.00</td><td>..</td><td>1 (part time)</td></tr> <tr> <td>Field station aids.....do.....</td><td>1,000.00</td><td>1</td><td>2</td></tr> <tr> <td>Clerk.....do.....</td><td>840.00</td><td>..</td><td>1</td></tr> <tr> <td>Assistants, clerks, aids, messenger boys, and collaborators— \$900 to \$1 .....per annum..</td><td></td><td>16</td><td>29 (4 temp.)</td></tr> <tr> <td>Wages:</td><td></td><td></td><td></td></tr> <tr> <td>Miscellaneous temporary labor— \$900 to \$540.....do.....</td><td></td><td>9</td><td>8</td></tr> <tr> <td>\$71 to \$15.....per month.....</td><td></td><td>..</td><td>39</td></tr> <tr> <td>\$5.25 to \$1.50.....per diem.....</td><td></td><td>2</td><td>70</td></tr> <tr> <td></td><td></td><td>48</td><td>176</td></tr> <tr> <td>Salaries.....</td><td></td><td>\$50,644.00</td><td>\$45,023.63</td></tr> <tr> <td>Wages.....</td><td></td><td>7,980.00</td><td>10,374.30</td></tr> <tr> <td>Other objects of expenditure:</td><td></td><td></td><td></td></tr> <tr> <td>Stationery.....</td><td></td><td>3,000.00</td><td>1,958.49</td></tr> <tr> <td>Traveling expenses.....</td><td></td><td>7,000.00</td><td>6,627.71</td></tr> <tr> <td>Equipment and material.....</td><td></td><td>12,000.00</td><td>14,697.00</td></tr> <tr> <td>Miscellaneous items.....</td><td></td><td>2,076.00</td><td>13,804.37</td></tr> <tr> <td>Total.....</td><td></td><td>82,700.00</td><td>92,485.50</td></tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended. 1918.	Salaries:			<i>Number.</i>	Agricultural explorer in charge.....per annum..	\$1,000.00	1	1	Agricultural explorer.....do.....	2,500.00	..	1	Agricultural explorer.....do.....	2,040.00	..	1	Agricultural explorer.....do.....	1,200.00	..	1 (temp.)	Plant introducer.....do.....	3,500.00	1	..	Plant introducer.....do.....	3,240.00	..	1	Plant introducer.....do.....	2,520.00	1	1	Assistant.....do.....	3,500.00	1	1	Assistant.....do.....	2,400.00	..	1	Assistants.....do.....	2,280.00	2	1	Assistant.....do.....	2,040.00	..	1	Assistant.....do.....	1,860.00	1	..	Assistant.....do.....	1,680.00	1	..	Assistants.....do.....	1,620.00	1	3 (2 part time.)	Assistant.....do.....	1,600.00	..	1	Assistants.....do.....	1,440.00	2	2	Assistants.....do.....	1,200.00	1	2	Assistant.....do.....	1,100.00	1	..	Assistants.....do.....	1,000.00	1	2 (1 temp.)	Station superintendents.....do.....	2,280.00	2	..	Station superintendents.....do.....	2,040.00	1	2 (part time)	Station superintendent.....do.....	1,860.00	1	..	Station superintendents.....do.....	1,800.00	1	2 (part time)	Station superintendent.....do.....	1,600.00	..	1	Plant propagator.....do.....	1,860.00	1	..	Plant propagator.....do.....	1,620.00	..	1	Plant propagator.....do.....	1,080.00	..	1 (part time)	Field station aids.....do.....	1,000.00	1	2	Clerk.....do.....	840.00	..	1	Assistants, clerks, aids, messenger boys, and collaborators— \$900 to \$1 .....per annum..		16	29 (4 temp.)	Wages:				Miscellaneous temporary labor— \$900 to \$540.....do.....		9	8	\$71 to \$15.....per month.....		..	39	\$5.25 to \$1.50.....per diem.....		2	70			48	176	Salaries.....		\$50,644.00	\$45,023.63	Wages.....		7,980.00	10,374.30	Other objects of expenditure:				Stationery.....		3,000.00	1,958.49	Traveling expenses.....		7,000.00	6,627.71	Equipment and material.....		12,000.00	14,697.00	Miscellaneous items.....		2,076.00	13,804.37	Total.....		82,700.00	92,485.50		
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Assistants, clerks, aids, messenger boys, and collaborators— \$900 to \$1 .....per annum..		16	29 (4 temp.)																																																																																																																																																																																			
Wages:																																																																																																																																																																																						
Miscellaneous temporary labor— \$900 to \$540.....do.....		9	8																																																																																																																																																																																			
\$71 to \$15.....per month.....		..	39																																																																																																																																																																																			
\$5.25 to \$1.50.....per diem.....		2	70																																																																																																																																																																																			
		48	176																																																																																																																																																																																			
Salaries.....		\$50,644.00	\$45,023.63																																																																																																																																																																																			
Wages.....		7,980.00	10,374.30																																																																																																																																																																																			
Other objects of expenditure:																																																																																																																																																																																						
Stationery.....		3,000.00	1,958.49																																																																																																																																																																																			
Traveling expenses.....		7,000.00	6,627.71																																																																																																																																																																																			
Equipment and material.....		12,000.00	14,697.00																																																																																																																																																																																			
Miscellaneous items.....		2,076.00	13,804.37																																																																																																																																																																																			
Total.....		82,700.00	92,485.50																																																																																																																																																																																			



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																																																																																				
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																																																																																																																																																						
(146) For the purchase, propagation, testing, and distribution of new and rare seeds; for the investigation and improvement of grasses, alfalfa, clover, and other forage crops, including the investigation of the utilization of cacti and other dry-land plants; and to conduct investigations to determine the most effective methods of eradicating weeds, [§143,180] §139,780: <i>Provided</i> , That of this amount not to exceed [§60,000] §57,800 may be used for the purchase and distribution of such new and rare seeds ( <i>acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 980, sec. 1</i> ) \$139,780.00																																																																																																																																																																																																						
NOTE.—There is an apparent decrease in the above item of \$3,400, due to the transfer to the statutory roll of 2 clerks of class 1 and 1 clerk at \$1,000.																																																																																																																																																																																																						
<i>Forage crop investigations.</i>																																																																																																																																																																																																						
<table border="1"> <thead> <tr> <th>Employees.</th> <th>Rate.</th> <th>Estimated, 1920.</th> <th>Expended, 1918.</th> </tr> </thead> <tbody> <tr> <td>Salaries:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Agrostologist in charge.....per annum..</td> <td>\$3,750.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Agrostologist.....do.....</td> <td>2,280.00</td> <td>1</td> <td>--</td> </tr> <tr> <td>Agronomists.....do.....</td> <td>2,760.00</td> <td>2</td> <td>1</td> </tr> <tr> <td>Agronomist.....do.....</td> <td>2,640.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Agronomist.....do.....</td> <td>2,520.00</td> <td>--</td> <td>1</td> </tr> <tr> <td>Agronomists.....do.....</td> <td>2,280.00</td> <td>2</td> <td>--</td> </tr> <tr> <td>Agronomist.....do.....</td> <td>2,000.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Assistants.....do.....</td> <td>2,040.00</td> <td>1</td> <td>3</td> </tr> <tr> <td>Assistant.....do.....</td> <td>1,920.00</td> <td>1</td> <td>--</td> </tr> <tr> <td>Assistant.....do.....</td> <td>1,800.00</td> <td>--</td> <td>1</td> </tr> <tr> <td>Assistants.....do.....</td> <td>1,620.00</td> <td>--</td> <td>2</td> </tr> <tr> <td>Plant propagator.....do.....</td> <td>2,220.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Botanist.....do.....</td> <td>2,040.00</td> <td>1</td> <td>--</td> </tr> <tr> <td>Scientific assistant.....do.....</td> <td>2,040.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Scientific assistants.....do.....</td> <td>2,000.00</td> <td>4</td> <td></td> </tr> <tr> <td>Scientific assistant.....do.....</td> <td>1,920.00</td> <td>--</td> <td>1 (temp.)</td> </tr> <tr> <td>Scientific assistant.....do.....</td> <td>1,890.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Scientific assistant.....do.....</td> <td>1,800.00</td> <td>--</td> <td>1</td> </tr> <tr> <td>Scientific assistants.....do.....</td> <td>1,680.00</td> <td>2</td> <td>1</td> </tr> <tr> <td>Scientific assistants.....do.....</td> <td>1,620.00</td> <td>2</td> <td>3 (2 temp.)</td> </tr> <tr> <td>Scientific assistants.....do.....</td> <td>1,500.00</td> <td>3</td> <td>4 (1 temp.)</td> </tr> <tr> <td>Scientific assistants.....do.....</td> <td>1,440.00</td> <td>--</td> <td>1</td> </tr> <tr> <td>Scientific assistant.....do.....</td> <td>1,080.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Station aid.....do.....</td> <td>1,080.00</td> <td>1</td> <td>--</td> </tr> <tr> <td>Station aid.....do.....</td> <td>1,000.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Agent.....do.....</td> <td>1,200.00</td> <td>2</td> <td>4 (temp.)</td> </tr> <tr> <td>Agent.....do.....</td> <td>1,150.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Agent.....per month.....</td> <td>150.00</td> <td>--</td> <td>1 (temp.)</td> </tr> <tr> <td>Agent.....do.....</td> <td>125.00</td> <td>1</td> <td>1 (temp.)</td> </tr> <tr> <td>Field assistants.....do.....</td> <td>100.00</td> <td>--</td> <td>4 (temp.)</td> </tr> <tr> <td>Clerk.....per annum.....</td> <td>1,200.00</td> <td>--</td> <td>1</td> </tr> <tr> <td>Agents, collaborators, clerks, and messenger boys—</td> <td></td> <td></td> <td></td> </tr> <tr> <td>\$700 to \$1.....do.....</td> <td></td> <td>7</td> <td>7 (1 temp.)</td> </tr> <tr> <td>\$75 to \$25.....per month.....</td> <td></td> <td>2</td> <td>4 (temp.)</td> </tr> <tr> <td>Wages:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Miscellaneous temporary labor—</td> <td></td> <td></td> <td></td> </tr> <tr> <td>\$75 to \$25.....per month.....</td> <td></td> <td>4</td> <td>15</td> </tr> <tr> <td>\$4.37 to \$0.89.....per diem.....</td> <td></td> <td>4</td> <td>29</td> </tr> <tr> <td></td> <td></td> <td>49</td> <td>94</td> </tr> <tr> <td>Salaries.....</td> <td></td> <td>\$50,669.00</td> <td>\$49,572.43</td> </tr> <tr> <td>Wages.....</td> <td></td> <td>4,730.00</td> <td>5,114.04</td> </tr> <tr> <td>Other objects of expenditure:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stationery.....</td> <td></td> <td>2,300.00</td> <td>306.25</td> </tr> <tr> <td>Traveling expenses.....</td> <td></td> <td>9,400.00</td> <td>9,325.11</td> </tr> <tr> <td>Equipment and material.....</td> <td></td> <td>8,600.00</td> <td>6,979.69</td> </tr> <tr> <td>Miscellaneous items.....</td> <td></td> <td>6,281.00</td> <td>9,119.72</td> </tr> <tr> <td>Total.....</td> <td></td> <td>81,980.00</td> <td>80,417.24</td> </tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:				Agrostologist in charge.....per annum..	\$3,750.00	1	1	Agrostologist.....do.....	2,280.00	1	--	Agronomists.....do.....	2,760.00	2	1	Agronomist.....do.....	2,640.00	1	1	Agronomist.....do.....	2,520.00	--	1	Agronomists.....do.....	2,280.00	2	--	Agronomist.....do.....	2,000.00	1	1	Assistants.....do.....	2,040.00	1	3	Assistant.....do.....	1,920.00	1	--	Assistant.....do.....	1,800.00	--	1	Assistants.....do.....	1,620.00	--	2	Plant propagator.....do.....	2,220.00	1	1	Botanist.....do.....	2,040.00	1	--	Scientific assistant.....do.....	2,040.00	1	1	Scientific assistants.....do.....	2,000.00	4		Scientific assistant.....do.....	1,920.00	--	1 (temp.)	Scientific assistant.....do.....	1,890.00	1	1	Scientific assistant.....do.....	1,800.00	--	1	Scientific assistants.....do.....	1,680.00	2	1	Scientific assistants.....do.....	1,620.00	2	3 (2 temp.)	Scientific assistants.....do.....	1,500.00	3	4 (1 temp.)	Scientific assistants.....do.....	1,440.00	--	1	Scientific assistant.....do.....	1,080.00	1	1	Station aid.....do.....	1,080.00	1	--	Station aid.....do.....	1,000.00	1	1	Agent.....do.....	1,200.00	2	4 (temp.)	Agent.....do.....	1,150.00	1	1	Agent.....per month.....	150.00	--	1 (temp.)	Agent.....do.....	125.00	1	1 (temp.)	Field assistants.....do.....	100.00	--	4 (temp.)	Clerk.....per annum.....	1,200.00	--	1	Agents, collaborators, clerks, and messenger boys—				\$700 to \$1.....do.....		7	7 (1 temp.)	\$75 to \$25.....per month.....		2	4 (temp.)	Wages:				Miscellaneous temporary labor—				\$75 to \$25.....per month.....		4	15	\$4.37 to \$0.89.....per diem.....		4	29			49	94	Salaries.....		\$50,669.00	\$49,572.43	Wages.....		4,730.00	5,114.04	Other objects of expenditure:				Stationery.....		2,300.00	306.25	Traveling expenses.....		9,400.00	9,325.11	Equipment and material.....		8,600.00	6,979.69	Miscellaneous items.....		6,281.00	9,119.72	Total.....		81,980.00	80,417.24		
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Plant Industry—Continued.**New and rare seeds.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Assistant.....per annum..	\$1,400.00	1	Number.
Assistants.....do.....	1,200.00	2	3 (2 temp.)
Assistants.....do.....	1,000.00	1	4 (3 temp.)
Clerk.....do.....	900.00	..	1 (temp.)
		4	8
Salaries.....		\$3,000.00	\$2,259.05
Other objects of expenditure:			
Stationery.....		1,000.00	765.90
Traveling expenses.....		2,000.00	
Equipment and material.....		5,000.00	5,260.97
Miscellaneous items (including seeds).....		46,800.00	47,336.09
Total.....		57,800.00	55,622.01

- (147) For the investigation of the use of commercial fertilizers and other materials proposed for stimulating or increasing crop growth (submitted) \$125,000.00

NOTE.—This is a new item. It is recommended in order that there may be inaugurated experiments with fertilizers in regions where the use of fertilizers now amounts annually to a large expenditure, for example, the South and Middle Atlantic regions, and in those regions where the increased use of fertilizers is expected to develop rapidly, for example, the Middle West and the North Central portion of the United States.

Agricultural colleges and experiment stations throughout all of these regions have conducted many valuable experiments, but the extreme diversity of plan in developing the experimental tests and the absence of any correlation between experimental work in different stations has led to much confusion in the results obtained. From preliminary conferences with representatives of many of the States, it appears certain that very effective correlation of existing activities will be possible if the Department can aid in developing more consistent plans for conducting such experiments. The work will in large part be cooperative with the agricultural experiment stations and the expenditures the Department would need to bear will be partly for skilled supervision, partly for materials, and for labor in conducting some of the experiments.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:			
Agriculturist in charge.....per annum..	\$3,500.00	1	Number.
Agriculturists.....do.....	2,760.00	3	..
Assistant agriculturists.....do.....	2,280.00	2	..
Assistant agriculturists.....do.....	2,040.00	2	..
Assistant agriculturists.....do.....	1,800.00	3	..
Assistant agriculturists.....do.....	1,620.00	3	..
Wages:			
Miscellaneous temporary labor— \$3.50 to \$2.....per diem..		40	..
		54	..
Salaries.....		\$38,000.00	.....
Wages.....		22,000.00	.....
Other objects of expenditure:			
Stationery.....		2,000.00	.....
Traveling expenses.....		12,000.00	.....
Equipment and material.....		46,000.00	.....
Miscellaneous items.....		5,000.00	.....
Total.....		125,000.00	.....

\* No appropriation for fiscal year 1918.

- (148) For general administrative expenses connected with the above-mentioned lines of investigation, including the office of the chief of bureau, the assistant chief of bureau, the officers in charge of publications, records, supplies, and property,



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																												
<i>General Expenses, Bureau of Plant Industry—Continued.</i>																																																																																																																																														
and for miscellaneous expenses incident thereto [ \$31,020 ] (acts Apr. 18, 1900, vol. 31, pp. 135, 136, secs. 1-5; Aug. 24, 1912, vol. 37, pp. 506, 507, secs. 1-4; Oct. 1, 1918, vol. 40, p. 983, sec. 1) ----- \$29,040.00																																																																																																																																														
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<table border="1"> <thead> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1920.</th><th>Expended. 1918.</th></tr> </thead> <tbody> <tr> <td><b>Salaries:</b></td><td></td><td></td><td></td></tr> <tr> <td>Physiologist and associate chief of bureau.....per annum.</td><td>\$4,500.00</td><td>1</td><td>1</td></tr> <tr> <td>Scientific assistant.....do.....</td><td>2,040.00</td><td>1</td><td>..</td></tr> <tr> <td>Scientific assistants.....do.....</td><td>1,800.00</td><td>1</td><td>3(1 pt. time)</td></tr> <tr> <td>Scientific assistant.....do.....</td><td>1,680.00</td><td>1</td><td>..</td></tr> <tr> <td>Scientific assistant.....do.....</td><td>1,440.00</td><td>..</td><td>1</td></tr> <tr> <td>Botanical assistant.....do.....</td><td>1,600.00</td><td>1</td><td>1</td></tr> <tr> <td>Assistant.....do.....</td><td>1,980.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistant.....do.....</td><td>1,500.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistants.....do.....</td><td>1,200.00</td><td>1</td><td>2</td></tr> <tr> <td>Assistants.....do.....</td><td>1,100.00</td><td>2</td><td>2</td></tr> <tr> <td>Arent.....per month.</td><td>125.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Clerk.....per annum.</td><td>1,980.00</td><td>..</td><td>1</td></tr> <tr> <td>Clerk.....do.....</td><td>1,400.00</td><td>..</td><td>1 (part time)</td></tr> <tr> <td>Clerk.....do.....</td><td>1,200.00</td><td>..</td><td>1</td></tr> <tr> <td>Clerks.....do.....</td><td>1,200.00</td><td>..</td><td>4(2 temp., 2 part time)</td></tr> <tr> <td>Clerk.....do.....</td><td>1,100.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Clerks.....do.....</td><td>1,080.00</td><td>..</td><td>2 (temp.)</td></tr> <tr> <td>Clerks.....do.....</td><td>1,000.00</td><td>..</td><td>3 (2 temp.)</td></tr> <tr> <td>Multigraph operator.....do.....</td><td>1,000.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Assistant engineer.....per month.</td><td>92.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Cabinet maker.....per annum.</td><td>1,200.00</td><td>1 (temp.)</td><td>..</td></tr> <tr> <td>Collaborators, watchmen, agent, messenger boys, labora- tory aids, and charwomen— \$720 to \$1.....do.....</td><td></td><td>2</td><td>13</td></tr> <tr> <td><b>Wages:</b></td><td></td><td></td><td></td></tr> <tr> <td>Miscellaneous temporary labor— \$60 to \$20.....per month.</td><td></td><td>..</td><td>16</td></tr> <tr> <td></td><td></td><td>13</td><td>55</td></tr> <tr> <td>Salaries.....</td><td></td><td>\$19,702.00</td><td>\$16,620.69</td></tr> <tr> <td>Wages.....</td><td></td><td></td><td>922.59</td></tr> <tr> <td><b>Other objects of expenditure:</b></td><td></td><td></td><td></td></tr> <tr> <td>Stationery.....</td><td></td><td>4,500.00</td><td>1,744.49</td></tr> <tr> <td>Traveling expenses.....</td><td></td><td>500.00</td><td>551.63</td></tr> <tr> <td>Equipment and material.....</td><td></td><td>3,000.00</td><td>4,225.04</td></tr> <tr> <td>Miscellaneous items.....</td><td></td><td>1,338.00</td><td>3,612.69</td></tr> <tr> <td><b>Total.....</b></td><td></td><td>29,040.00</td><td>27,676.93</td></tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended. 1918.	<b>Salaries:</b>				Physiologist and associate chief of bureau.....per annum.	\$4,500.00	1	1	Scientific assistant.....do.....	2,040.00	1	..	Scientific assistants.....do.....	1,800.00	1	3(1 pt. time)	Scientific assistant.....do.....	1,680.00	1	..	Scientific assistant.....do.....	1,440.00	..	1	Botanical assistant.....do.....	1,600.00	1	1	Assistant.....do.....	1,980.00	1	..	Assistant.....do.....	1,500.00	1	..	Assistants.....do.....	1,200.00	1	2	Assistants.....do.....	1,100.00	2	2	Arent.....per month.	125.00	..	1 (temp.)	Clerk.....per annum.	1,980.00	..	1	Clerk.....do.....	1,400.00	..	1 (part time)	Clerk.....do.....	1,200.00	..	1	Clerks.....do.....	1,200.00	..	4(2 temp., 2 part time)	Clerk.....do.....	1,100.00	..	1 (temp.)	Clerks.....do.....	1,080.00	..	2 (temp.)	Clerks.....do.....	1,000.00	..	3 (2 temp.)	Multigraph operator.....do.....	1,000.00	..	1 (temp.)	Assistant engineer.....per month.	92.00	..	1 (temp.)	Cabinet maker.....per annum.	1,200.00	1 (temp.)	..	Collaborators, watchmen, agent, messenger boys, labora- tory aids, and charwomen— \$720 to \$1.....do.....		2	13	<b>Wages:</b>				Miscellaneous temporary labor— \$60 to \$20.....per month.		..	16			13	55	Salaries.....		\$19,702.00	\$16,620.69	Wages.....			922.59	<b>Other objects of expenditure:</b>				Stationery.....		4,500.00	1,744.49	Traveling expenses.....		500.00	551.63	Equipment and material.....		3,000.00	4,225.04	Miscellaneous items.....		1,338.00	3,612.69	<b>Total.....</b>		29,040.00	27,676.93		
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In all, for general expenses -----	\$2,560,438.00	\$2,454,698.00																																																																																																																																												
Appropriations for 1910..... \$1,180,796	Estimates for 1911..... \$1,133,346																																																																																																																																													
Appropriations for 1911..... 1,193,346	Estimates for 1912..... 1,347,326																																																																																																																																													
Appropriations for 1912..... 1,441,536	Estimates for 1913..... 1,438,590																																																																																																																																													
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Appropriations for 1914..... 1,944,305	Estimates for 1915..... 2,237,135																																																																																																																																													
Appropriations for 1915..... 2,880,875	Estimates for 1916..... 1,573,275																																																																																																																																													
Appropriations for 1916..... 1,462,460	Estimates for 1917..... 1,571,990																																																																																																																																													
Deficiency act..... 320,000																																																																																																																																														
Appropriations for 1917..... 1,866,340	Estimates for 1918..... 1,974,530																																																																																																																																													
Appropriations for 1918..... 2,480,530	Estimates for 1919..... 2,215,698																																																																																																																																													
Appropriations for 1919..... 2,454,698	Estimates for 1920..... 2,560,438																																																																																																																																													

*Purchase and Distribution of Valuable Seeds—*

- (149) For purchase, propagation, testing, and congressional distribution of valuable seeds, bulbs, trees, shrubs, vines, cuttings, and plants; all necessary office fixtures and supplies, fuel, transportation, paper, twine, gum, postal cards, gas, electric current, rent outside of the District of Columbia, official traveling expenses, and all necessary material and repairs for putting up and distributing the same; for repairs and the employment of local and special agents, clerks, assistants, and other labor required, in the city of Washington and elsewhere, [ \$242,320 ] \$239,320.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<p><i>Purchase and Distribution of Valuable Seeds—Continued.</i></p> <p>And the Secretary of Agriculture is hereby directed to expend the said sum, as nearly as practicable, in the purchase, testing, and distribution of such valuable seeds, bulbs, shrubs, vines, cuttings, and plants, the best he can obtain at public or private sale, and such as shall be suitable for the respective localities to which the same are to be apportioned, and in which same are to be distributed as herein-after stated, and such seeds so purchased shall include a variety of vegetable and flower seeds suitable for planting and culture in the various sections of the United States: <i>Provided</i>, That the Secretary of Agriculture, after due advertisement and on competitive bids, is authorized to award the contract for the supplying of printed packets and envelopes and the packeting, assembling, and mailing of the seeds, bulbs, shrubs, vines, cuttings, and plants, or any part thereof, for a period of not more than five years nor less than one year, if by such action he can best protect the interests of the United States. An equal proportion of five-sixths of all seeds, bulbs, shrubs, vines, cuttings, and plants, shall upon their request, after due notification by the Secretary of Agriculture that the allotment to their respective districts is ready for distribution, be supplied to Senators, Representatives, and Delegates in Congress for distribution among their constituents, or mailed by the department upon the receipt of their addressed franks, in packages of such weight as the Secretary of Agriculture and the Postmaster General may jointly determine: <i>Provided, however</i>, That upon each envelope or wrapper containing packages of seeds the contents thereof shall be plainly indicated, and the Secretary shall not distribute to any Senator, Representative, or Delegate seeds entirely unfit for the climate and locality he represents, but shall distribute the same so that each Member may have seeds of equal value, as near as may be, and the best adapted to the locality he represents: <i>Provided, also</i>, That the seeds allotted to Senators and Representatives for distribution in the districts embraced within the twenty-fifth and thirty-fourth parallels of latitude shall be ready for delivery not later than the tenth day of January: <i>Provided, also</i>, That any portion of the allotments to Senators, Representatives, and Delegates in Congress remaining uncalled for on the first day of April shall be distributed by the Secretary of Agriculture, giving preference to those persons whose names and addresses have been furnished by Senators and Representatives in Congress and who have not before during the same season been supplied by the department: <i>And provided, also</i>, That the Secretary shall report, as provided in this act, the place, quantity, and price of seeds purchased, and the date of purchase; but nothing in this paragraph shall be construed to prevent the Secretary of Agriculture from sending seeds to those who apply for the same. And the amount herein appropriated shall not be diverted or used for any other purpose but for the purchase, testing, propagation, and distribution of valuable seeds, bulbs, mulberry and other rare and valuable trees, shrubs, vines, cuttings, and plants (<i>act Oct. 1, 1918, vol. 40, pp. 983-984, sec. 1</i>) -----</p>	\$239,320.00	\$242,320.00

NOTE.—There is an apparent decrease in the above item of \$3,000, due to the transfer to the statutory roll of 1 clerk of class 4 and 1 clerk of class 1.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.		
<b>Purchase and Distribution of Valuable Seeds—Continued.</b>				
	Employees.	Rate.	Estimated, 1920.	Expended 1918.
			Number.	Number.
Salaries:				
Agronomist in charge.....per annum.....	\$3,240.00	1		
Agronomist in charge.....do.....	3,000.00	..	1	
Superintendents.....do.....	3,000.00	2	2	
Superintendents.....do.....	2,040.00		2 (part time)	
Horticulturist.....do.....	2,460.00	1	1	
Assistant.....do.....	1,400.00	1	1	
Assistant.....do.....	1,000.00	1	..	
Clerk †.....do.....	1,800.00	..	1	
Clerk.....do.....	1,400.00	..	1	
Clerk †.....do.....	1,200.00	..	1	
Clerk.....do.....	900.00	..	1	
Messenger boy *	480.00	..	1	
Clerks, assistants, and messenger boys, \$900 to \$300.....do.....		3	4 (2 temp.)	
Wages:				
Miscellaneous temporary labor—				
\$720.....per annum.....			2	
\$2.50 to \$1.25.....per diem.....			16	
			9	34
Salaries.....		\$14,580.00	\$14,505.88	
Wages.....			2,211.95	
Other objects of expenditure:				
Stationery.....		5,000.00	2,497.88	
Traveling expenses.....		3,000.00	1,678.93	
Equipment and material.....		3,000.00	2,741.40	
Miscellaneous items (including seed).....		211,740.00	210,070.01	
<b>Total.....</b>		<b>239,320.00</b>	<b>233,706.05</b>	
* Transferred to statutory roll in Agricultural act for 1919. † Recommended for transfer to statutory roll in estimates for 1920.				
Appropriation for 1910.....\$317,960	Estimate for 1911.....	\$309,590		
Appropriation for 1911.....309,590	Estimate for 1912.....	301,680		
Appropriation for 1912.....289,680	Estimate for 1913.....	285,680		
Appropriation for 1913.....255,680	Estimate for 1914.....	263,900		
Appropriation for 1914.....296,000	Estimate for 1915.....	..		
Appropriation for 1915.....257,000	Estimate for 1916.....	252,540		
Appropriation for 1916.....252,540	Estimate for 1917.....	252,540		
Appropriation for 1917.....252,540	Estimate for 1918.....	243,720		
Appropriation for 1918.....243,720	Estimate for 1919.....	242,320		
Appropriation for 1919.....242,320	Estimate for 1920.....	239,320		
<i>Statement of clerks employed in District of Columbia under lump-sum appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).</i>				
GENERAL EXPENSES—BUREAU OF PLANT INDUSTRY.				
1 clerk, \$1,980 per annum.				
1 clerk, \$1,800 per annum.				
2 clerks, at \$1,600 each per annum.				
1 clerk, \$1,500 per annum.				
1 clerk, \$1,470 per annum.				
3 clerks, at \$1,400 each per annum.				
1 clerk, \$1,320 per annum.				
34 clerks, at \$1,200 each per annum.				
2 clerks, at \$1,100 each per annum.				
2 clerks, at \$1,080 each per annum.				
3 clerks, at \$1,020 each per annum.				
20 clerks, at \$1,000 each per annum.				
8 clerks, at \$900 each per annum.				
2 clerks, at \$840 each per annum.				
PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS.				
1 clerk, \$1,800 per annum.				
2 clerks, at \$1,400 each per annum.				
1 clerk, \$1,200 per annum.				
2 typewriters, at \$900 each per annum.				
DEMONSTRATIONS ON RECLAMATION PROJECTS.				
1 clerk, \$1,400 per annum.				
Total for Bureau of Plant Industry.....			\$3,294,138.00	\$3,137,038.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
FOREST SERVICE.		
<i>Salaries, Forest Service—</i>		
(1) One forester, who shall be chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Mar. 2, 1901, vol. 31, p. 929, sec. 1; Oct. 1, 1918, vol. 40, pp. 984-985, sec. 1</i> )-----	\$5,000.00	
(2) One chief of office of accounts and fiscal agent ( <i>same acts</i> )-----	2,500.00	
(3) One inspector of records ( <i>same acts</i> )-----	2,400.00	
(4) Seven district fiscal agents, at \$2,120 each ( <i>same acts</i> )-----	14,840.00	
(5) One forest supervisor ( <i>same acts</i> )-----	2,800.00	
(6) One forest supervisor ( <i>same acts</i> )-----	2,700.00	
(7) Eight forest supervisors, at \$2,400 each ( <i>same acts</i> )-----	19,200.00	
(8) Twenty forest supervisors, at \$2,200 each ( <i>same acts</i> )-----	44,000.00	
(9) Forty-nine forest supervisors, at \$2,000 each ( <i>same acts</i> )-----	98,000.00	
(10) Sixty-six forest supervisors, at \$1,800 each ( <i>same acts</i> )-----	118,800.00	
(11) Five forest supervisors, at \$1,600 each ( <i>same acts</i> )-----	8,000.00	
(12) One deputy forest supervisor ( <i>same acts</i> )-----	1,800.00	
(13) Four deputy forest supervisors, at \$1,700 each ( <i>same acts</i> )-----	6,800.00	
(14) Twenty-eight deputy forest supervisors, at \$1,600 each ( <i>same acts</i> )-----	44,800.00	
(15) Thirty-one deputy forest supervisors, at \$1,500 each ( <i>same acts</i> )-----	46,500.00	
(16) Eighteen deputy forest supervisors, at \$1,400 each ( <i>same acts</i> )-----	25,200.00	
(17) Eleven forest rangers, at \$1,500 each ( <i>same acts</i> )-----	16,500.00	
(18) Twenty-three forest rangers, at \$1,400 each ( <i>same acts</i> )-----	32,200.00	
(19) Seventy-eight forest rangers, at \$1,300 each ( <i>same acts</i> )-----	101,400.00	
(20) Two hundred and eighty-eight forest rangers, at \$1,200 each ( <i>same acts</i> )-----	345,600.00	
(21) Six hundred and thirty forest rangers, at \$1,100 each ( <i>same acts</i> )-----	693,000.00	
(22) One hundred forest guards, at \$1,100 each, for periods not exceeding six months in the aggregate ( <i>same acts</i> )-----	55,000.00	
(23) Forty forest guards, at \$1,100 each, for periods not exceeding three months in the aggregate ( <i>same acts</i> )-----	11,000.00	
(24) One clerk ( <i>same acts</i> )-----	2,100.00	
(25) Four clerks, at \$2,000 each ( <i>same acts</i> )-----	8,000.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Forest Service—Continued.</i>		
(26) Nineteen clerks, at \$1,800 each ( <i>R. S., p. 87, secs. 520-523; acts Mar. 2, 1901, vol. 31, p. 929, sec. 1; Oct. 1, 1918, vol. 40, pp. 984-985, sec. 1</i> ) -----	\$34,200.00	
(27) Twenty-one clerks, at \$1,600 each ( <i>same acts</i> ) -----	33,600.00	
(28) Nine clerks, at \$1,500 each ( <i>same acts</i> ) -----	13,500.00	
(29) Twenty-three clerks, at \$1,400 each ( <i>same acts</i> ) -----	32,200.00	
(30) Nine clerks, at \$1,300 each ( <i>same acts</i> ) -----	11,700.00	
(31) One hundred and thirty-eight clerks, at \$1,200 each ( <i>same acts</i> ) -----	165,600.00	
(32) Ninety-five clerks, at \$1,100 each ( <i>same acts</i> ) -----	104,500.00	
(33) Fifty-four clerks, at \$1,020 each ( <i>same acts</i> ) -----	55,080.00	
(34) Thirty clerks, at \$960 each ( <i>same acts</i> ) -----	28,800.00	
(35) One hundred and twenty-two clerks, at \$900 each ( <i>same acts</i> ) -----	109,800.00	
(36) Two clerks, at \$840 each ( <i>same acts</i> ) -----	1,680.00	
(37) One clerk ( <i>same acts</i> ) -----	600.00	
(38) One clerk or proof reader ( <i>same acts</i> ) -----	1,400.00	
(39) One clerk or translator ( <i>same acts</i> ) -----	1,400.00	
(40) One compiler ( <i>same acts</i> ) -----	1,800.00	
(41) One draftsman ( <i>same acts</i> ) -----	2,000.00	
(42) Two draftsmen or surveyors, at \$1,800 each (increase of 1 by transfer of 1 surveyor from lump fund for survey of lands) ( <i>same acts</i> ) -----	3,600.00	
(43) Three draftsmen, at \$1,600 each ( <i>same acts</i> ) -----	4,800.00	
(44) One clerk or compositor ( <i>same acts</i> ) -----	1,600.00	
(45) Three draftsmen or surveyors, at \$1,600 each ( <i>same acts</i> ) -----	4,800.00	
(46) Sixteen draftsmen or surveyors, at \$1,500 each ( <i>same acts</i> ) -----	24,000.00	
(47) Six draftsmen or surveyors, at \$1,400 each ( <i>same acts</i> ) -----	8,400.00	
(48) Two draftsmen, at \$1,500 each ( <i>same acts</i> ) -----	3,000.00	
(49) Nine draftsmen, at \$1,400 each ( <i>same acts</i> ) -----	12,600.00	
(50) Four draftsmen, at \$1,300 each ( <i>same acts</i> ) -----	5,200.00	
(51) Sixteen draftsmen, at \$1,200 each ( <i>same acts</i> ) -----	19,200.00	
(52) Two draftsmen, at \$1,100 each ( <i>same acts</i> ) -----	2,200.00	
(53) Three draftsmen, at \$1,020 each ( <i>same acts</i> ) -----	3,060.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Forest Service—Continued.</i>		
(54) One draftsman ( <i>R. S., p. 87, secs. 520–523; acts Mar. 2, 1901, vol. 31, p. 929, sec. 1; Oct. 1, 1918, vol. 40, pp. 984–985, sec. 1</i> ) \$1,000.00		
(55) One draftsman ( <i>same acts</i> )----- 960.00		
(56) Twelve draftsmen or map colorists, at \$900 each ( <i>same acts</i> ).. 10,800.00		
(57) One draftsman or artist ( <i>same acts</i> )----- 1,200.00		
(58) One draftsman or negative cutter ( <i>same acts</i> )----- 1,200.00		
(59) One artist ( <i>same acts</i> )----- 1,600.00		
(60) One artist ( <i>same acts</i> )----- 1,000.00		
(61) One photographer ( <i>same acts</i> )----- 1,600.00		
(62) One photographer ( <i>same acts</i> )----- 1,400.00		
(63) One photographer ( <i>same acts</i> )----- 1,200.00		
(64) One photographer ( <i>same acts</i> )----- 1,100.00		
(65) One lithographer or photographer ( <i>same acts</i> )----- 1,200.00		
(66) One lithographer's helper ( <i>same acts</i> )----- 780.00		
(67) One blue-printer ( <i>same acts</i> )----- 900.00		
(68) One blue-printer ( <i>same acts</i> )----- 720.00		
(69) Two telephone operators, at \$600 each ( <i>same acts</i> )----- 1,200.00		
(70) One machinist ( <i>same acts</i> )----- 1,260.00		
(71) Two carpenters, at \$1,200 each ( <i>same acts</i> )----- 2,400.00		
(72) Three carpenters, at \$1,000 each ( <i>same acts</i> )----- 3,000.00		
(73) One carpenter ( <i>same acts</i> )----- 960.00		
(74) One electrician ( <i>same acts</i> )----- 1,020.00		
(75) One laboratory aid and engineer ( <i>same acts</i> )----- 1,000.00		
(76) Nine laboratory aids and engineers, at \$900 each ( <i>same acts</i> ). 8,100.00		
(77) Two laboratory aids and engineers, at \$800 each ( <i>same acts</i> ). 1,600.00		
(78) One laboratory helper ( <i>same acts</i> )----- 720.00		
(79) One laboratory helper ( <i>same acts</i> )----- 600.00		
(80) One packer ( <i>same acts</i> )----- 1,000.00		
(81) One packer ( <i>same acts</i> )----- 780.00		
(82) Four watchmen, at \$840 each ( <i>same acts</i> )----- 3,360.00		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Forest Service—Continued.</i>		
(83) Two messengers or laborers, at \$960 each ( <i>R. S., p. 87, secs. 520-723; acts Mar. 2, 1901, vol. 31, p. 929, sec. 1; Oct. 1, 1918, vol. 40; pp. 984-985, sec. 1</i> )-----	\$1,920.00	
(84) Three messengers or laborers, at \$900 each ( <i>same acts</i> )-----	2,700.00	
(85) Four messengers or laborers, at \$840 each ( <i>same acts</i> )-----	3,360.00	
(86) Three messengers or laborers, at \$780 each ( <i>same acts</i> )-----	2,340.00	
(87) Five messengers or laborers, at \$720 each ( <i>same acts</i> )-----	3,600.00	
(88) Six messengers or laborers, at \$660 each ( <i>same acts</i> )-----	3,960.00	
(89) Five messengers, messenger boys, or laborers, at \$600 each ( <i>same acts</i> )-----	3,000.00	
(90) Two messengers, messenger boys, or laborers, at \$540 each ( <i>same acts</i> )-----	1,080.00	
(91) Three messengers or messenger boys, at \$480 each ( <i>same acts</i> )-----	1,440.00	
(92) Three messengers or messenger boys, at \$420 each ( <i>same acts</i> )-----	1,260.00	
(93) Thirteen messengers or messenger boys, at \$360 each ( <i>same acts</i> )-----	4,680.00	
(94) One charwoman ( <i>same acts</i> )-----	540.00	
(95) One charwoman ( <i>same acts</i> )-----	480.00	
(96) One charwoman ( <i>same acts</i> )-----	300.00	
(97) Eleven charwomen, at \$240 each ( <i>same acts</i> )-----	2,640.00	
	\$2,485,420.00	\$2,483,620.00
Appropriations for 1910..... \$60,200   Estimates for 1911..... \$60,200		
Appropriations for 1911..... 60,200   Estimates for 1912..... 2,318,680		
Appropriations for 1912..... 2,318,680   Estimates for 1913..... 2,290,610		
Appropriations for 1913..... 2,235,760   Estimates for 1914..... 2,212,810		
Appropriations for 1914..... 2,239,560   Estimates for 1915..... 2,305,160		
Appropriations for 1915..... 2,305,160   Estimates for 1916..... 2,335,580		
Appropriations for 1916..... 2,335,580   Estimates for 1917..... 2,361,120		
Appropriations for 1917..... 2,361,320   Estimates for 1918..... 2,449,580		
Appropriations for 1918..... 2,447,800   Estimates for 1919..... 2,483,620		
Appropriations for 1919..... 2,483,620   Estimates for 1920..... 2,485,420		
NOTE.—Apparent increase, \$1,800; no actual increase, as follows:		
<i>Transfer from lump fund of this bureau, which fund has been correspondingly reduced.</i>		
1 surveyor, from survey of lands..... \$1,800		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Forest Service—Continued.</i>		
<b>SUPPLEMENTAL ESTIMATE.</b>		
NOTE.—The economics of practical forestry have now attained a degree of appreciation in the commercial world, particularly in the lumber industry, which, combined with recent changes in living conditions, makes it exceedingly difficult to maintain an adequate and competent force. To meet this condition it is necessary to revise the present arrangement of statutory positions, an arrangement which was instituted years ago at a time and under conditions entirely dissimilar to the present. The changes proposed are as follows:		
<i>Promotions:</i>		
(97½) 1 chief of office of accounts and fiscal agent, \$2,500 to \$2,760 .	\$260	
(The employee filling this position has served in the department nearly 18 years, receiving his last promotion Feb. 1, 1910, at which time he was made chief of accounts and fiscal agent in the Forest Service. In the meantime the responsibilities of the position have materially increased. The promotion recommended will tend to equalize the salary of this official with the compensation now received by disbursing and accounting officers in other Departments for similar services.)		
<i>Forest supervisors and assistant forest supervisors.</i>		
(98) 1, \$2,800 to \$3,180 .	380	
(99) 1, \$2,700 to \$2,760 .	60	
(100) 5, \$2,400 to \$2,760 .	1,800	
(101) 3, \$2,400 to \$2,640 .	720	
(102) 6, \$2,200 to \$2,640 .	2,640	
(103) 12, \$2,200 to \$2,520 .	3,840	
(104) 2, \$2,200 to \$2,400 .	400	
(105) 18, \$2,000 to \$2,400 .	7,200	
(106) 31, \$2,000 to \$2,280 .	8,680	
(107) 5, \$1,800 to \$2,280 .	2,400	
(108) 48, \$1,800 to \$2,040 .	11,520	
(109) 2, \$1,700 to \$1,800 .	200	
(110) 20, \$1,600 to \$1,680 .	1,600	
(111) 13, \$1,600 to \$1,620 .	260	
(112) 12, \$1,500 to \$1,620 .	1,440	
(A readjustment of the salaries of forest supervisors and assistant forest supervisors is believed essential. These men are holding pivotal positions. The protection of the public forests and the service to the public in the use of their resources depend on having competent and experienced men in these positions. The work requires technical knowledge of forestry, fire protection, lumbering, and grazing, as well as experience in national forest administration. The salary grades have remained substantially unchanged for nine years. The salaries are now so low that it is not possible to continue to hold men of adequate training and experience. The present forest officers have remained in the service through a deep sense of loyalty, though under the greatest pressure through attractive offers from the outside. Increased living costs are forcing many to resign, and other competent men can not be found to take their places at the present rates. Because of the technical character of these positions and the necessity for trained men, the ordinary plan of horizontal increase, applicable to clerical and nontechnical positions, does not meet the situation.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Forest Service—Continued.</i>		
<i>Promotions—Continued.</i>		
<i>Forest rangers.</i>		
(113) 11, \$1,500 to \$1,620-----	\$1,320	
(114) 7, \$1,400 to \$1,620-----	1,540	
(115) 16, \$1,400 to \$1,500-----	1,600	
(116) 9, \$1,300 to \$1,500-----	1,800	
(117) 69, \$1,300 to \$1,380-----	5,520	
(118) 6, \$1,200 to \$1,380-----	1,080	
(119) 100, \$1,200 to \$1,320-----	12,000	
(120) 318, \$1,100 to \$1,200-----	31,800	
(121) 242, \$1,100 to \$1,140-----	9,680	
(As in the case of forest supervisors and assistant forest supervisors these men are holding pivotal positions. The protection of the public forests and the service to the public in the use of their resources depend on having competent and trained men in these positions. The salaries are now so low that it is not possible to hold men of adequate training and experience. Increased living costs are forcing many to resign and owing to the technical character of the work and the necessity for experience other competent men can not be found to take their places at the present rates.)		
<i>Forest guards.</i>		
(122) 55, \$1,100 to \$1,140 (six months' service)-----	1,100	
(123) 40, \$1,100 to \$1,140 (three months' service)-----	400	
(This is a nominal increase in the base rate. Forest guards perform the same duties as forest rangers and are required to furnish the same equipment, even though the positions are only temporary.)		
<i>Clerks.</i>		
(124) 21, \$1,600 to \$1,620-----	420	
(125) 3, \$1,500 to \$1,620-----	360	
(126) 25, \$1,400 to \$1,500-----	2,500	
(127) 7, \$1,300 to \$1,500-----	1,400	
(128) 2, \$1,300 to \$1,380-----	160	
(129) 38, \$1,200 to \$1,380-----	6,840	
(130) 45, \$1,200 to \$1,320-----	5,400	
(131) 25, \$1,100 to \$1,200-----	2,500	
(132) 70, \$1,100 to \$1,140-----	2,800	
(133) 10, \$1,020 to \$1,140-----	1,200	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Forest Service—Continued.</i>		
<i>Promotions—Continued.</i>		
(134) 44, \$1,020 to \$1,080-----	\$2,640	
(135) 16, \$960 to \$1,080-----	1,920	
(136) 14, \$960 to \$1,020-----	840	
(137) 31, \$900 to \$1,020-----	3,720	
(138) 73, \$900 to \$1,000-----	7,300	
(139) 1, \$600 to \$900-----	300	
(Much difficulty has been experienced for several years in keeping filled the important positions of chief clerk in national forest headquarters offices. Men having the proper qualifications for such places are always in demand at a good salary in the commercial world. These assignments are frequently located in small country towns, often far from railroads, and are socially and economically considered undesirable. This fact, together with the demand for similarly qualified men in larger cities under more congenial living and working conditions, puts the Forest Service at a disadvantage. To stabilize the clerical force in the forest supervisors' offices and to reduce to a minimum the loss of efficiency that inevitably results from frequent changes in personnel, it is necessary that the range of statutory salaries be changed. In order to maintain a force of stenographers and typewriters to carry on the work of the Forest Service, it will be necessary to have a better balanced list in the clerical positions so that a greater number of places will be at \$1,140 and \$1,200, with fewer in the positions at lower salaries. Therefore, an increase in the number of places in the \$1,200 to \$1,620 grades, inclusive, has been recommended, with a corresponding decrease in the number of positions below the \$1,200 grade. This arrangement will result in the elimination of the clerical places, with the exception of 1 clerk (minor) at \$900, below \$1,000, 18 clerks at \$900 each, and 2 at \$840 each. It is believed that this schedule of statutory clerical grades will materially relieve the situation.)		
<i>Surveyors, draftsmen, artists, photographers, map-colorists, blue-printers, compilers, or compositors.</i>		
(140) 1, \$2,000 to \$2,040-----	40	
(141) 4, \$1,600 to \$1,800-----	800	
(142) 5, \$1,600 to \$1,620-----	100	
(143) 4, \$1,500 to \$1,620-----	480	
(144) 3, \$1,400 to \$1,500-----	300	
(145) 13, \$1,400 to \$1,440-----	520	
(146) 1, \$1,300 to \$1,440-----	140	
(147) 3, \$1,300 to \$1,320-----	60	
(148) 5, \$1,200 to \$1,320-----	600	
(149) 1, \$1,100 to \$1,200-----	100	
(150) 2, \$1,100 to \$1,140-----	80	
(151) 3, \$1,020 to \$1,140-----	360	
(152) 1, \$1,000 to \$1,140-----	140	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Forest Service—Continued.</i>		
<i>Promotions—Continued.</i>		
(153) 1, \$1,000 to \$1,020-----	\$20	
(154) 1, \$960 to \$1,020-----	60	
(155) 7, \$900 to \$1,020-----	840	
(On account of the form in which the statutory roll at present appears in the appropriation bill, vacancies occurring in the roll can be filled only by the promotion or assignment of those who have the same civil service status; that is, a draftsman vacancy can be filled only by a draftsman, a photographer vacancy by a photographer, etc. There are two artist positions, one at \$1,200 and one at \$1,600. There is no possibility of promoting from the \$1,200 grade unless the \$1,600 place becomes vacant, and with only two positions of this character the possibilities of promotion are negligible. The value of an individual in an organization and the salary which should be paid does not necessarily depend upon the particular civil service position that the individual occupies. To become permanently fixed in the position without any reasonable prospect of advancement does not make for the proper spirit in an organization or for the highest efficiency in the work. It is obvious that far better results will be secured if work of high standard can be recognized by promotions to salaries commensurate with the work performed.)		
<i>Machinists, carpenters, or electricians.</i>		
(156) 1, \$1,260 to \$1,500-----	240	
(157) 1, \$1,200 to \$1,320-----	120	
(158) 1, \$1,020 to \$1,200-----	180	
(159) 3, \$1,000 to \$1,200-----	600	
(160) 1, \$960 to \$1,200-----	240	
(These promotions are recommended in order to provide salaries commensurate with the work performed, and also to approach the salaries paid for similar work outside the Government service. Other departments of the Government and private corporations are paying much higher salaries to electricians, carpenters, and machinists than this department is able to pay. That the Forest Service has so far been able to maintain its artisan force with but few changes is due entirely to the loyalty of the employees in these grades. Obviously their services should be recognized as equal in value to the Forest Service as in any other employment and their pay status arranged accordingly.)		
<i>Laboratory aids or engineers.</i>		
(161) 1, \$1,000 to \$1,200-----	200	
(162) 4, \$900 to \$1,200-----	1,200	
(163) 1, \$900 to \$1,080-----	180	
(164) 4, \$900 to \$1,020-----	480	
(165) 2, \$800 to \$1,020-----	440	
(These promotions are recommended in order to provide salaries commensurate with the work performed and also to approach the salaries paid for similar work outside of the Government service.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Forest Service—Continued.</i>		
<i>Promotions—Continued.</i>		
<i>Telephone operators.</i>		
(166) 2, \$600 to \$840-----	\$480	
(These promotions are recommended in order that the salaries of the positions may conform to the minimum salary recommended for the position of telephone operator.)		
<i>Watchmen, laboratory helpers, packers, messengers, or laborers.</i>		
(167) 1, \$1,000 to \$1,020-----	20	
(168) 2, \$960 to \$1,020-----	120	
(169) 3, \$900 to \$1,020-----	360	
(170) 2, \$840 to \$1,020-----	360	
(171) 2, \$840 to \$960-----	240	
(172) 4, \$840 to \$900-----	240	
(173) 4, \$780 to \$900-----	480	
(174) 6, \$720 to \$900-----	1,080	
(175) 6, \$660 to \$900-----	1,440	
(176) 1, \$600 to \$900-----	300	
(These promotions are recommended in order to meet the salaries that can be secured by employees of this grade outside the department, and to conform to the minimum salary recommended for these positions.)		
<i>Messenger boys.</i>		
(177) 2, \$420 to \$480-----	120	
(These promotions are recommended in order that the salaries of the positions may conform to the minimum salary recommended for the position of messenger boy.)		
<i>New places:</i>		
(178) 162 forest guards, at \$1,140 each, for periods not exceeding three months each-----	46,170	
(179) 15 watchmen, laboratory helpers, packers, messengers or laborers, at \$900 each-----	13,500	
	224,970	
(This increase in the number of three-months' guard positions is necessary for the adequate and efficient protection of the National Forests during the season of greatest fire danger. It is offset by a corresponding reduction in the number of six months and yearlong positions. These new positions in the class of watchmen, laboratory helpers, packers, messengers or laborers at \$900 are necessary to provide more adequate salaries for these positions in order to stabilize the force. They are offset by a greater number of reductions in lower-salaried positions in the same class.)		
<i>Places dropped:</i>		
(180) 2 deputy forest supervisors, at \$1,700 each----- \$3,400		
(181) 19 deputy forest supervisors, at \$1,500 each----- 28,500		
(182) 18 deputy forest supervisors, at \$1,400 each----- 25,200		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Forest Service—Continued.</i>		
<i>Places dropped—Continued.</i>		
(183) 70 forest rangers, at \$1,100 each.....\$77,000		
(184) 45 forest guards, at \$1,100 each (for six months' service). 24,750		
(185) 18 clerks, at \$900 each.....16,200		
(186) 2 clerks, at \$840 each.....1,680		
(187) 6 draftsmen or map colorists, at \$900 each.....5,400		
(188) 1 lithographer's helper.....780		
(189) 1 blue printer.....720		
(190) 3 messenger boys or laborers, at \$600 each.....1,800		
(191) 1 messenger boy or laborer.....540		
(192) 1 messenger boy or laborer.....420		
(193) 13 messenger boys or laborers, at \$360 each.....4,680	\$191,070	
Net increase.....33,900		
(Of the positions to be dropped 18 \$1,100 yearlong ranger positions and 45 \$1,100 six-months forest guard positions are intended to offset the equivalent of 162 \$1,100 three-months forest guard positions indicated above under "New places." Likewise the 18 messenger boy or laborer positions which are dropped are to be replaced by the 15 new positions in the class of watchmen, laboratory helpers, packers, messengers or laborers. The further reduction of 119 statutory positions in the grades of supervisors, deputy supervisors, rangers, clerks, etc., is made possible by the increased elasticity and added efficiency which will result from the revision of the statutory roll as herein recommended and by changes in the organization of forest units which such revision will make possible.)		
(194) If the above recommendations are approved by the Committee the statutory roll of the Forest Service will read as follows:		
1 forester, chief of bureau.....\$5,000		
1 chief of office of accounts and fiscal agent.....2,760		
1 inspector of records.....2,400		
7 district fiscal agents, at \$2,120 each.....14,840		
<i>Forest supervisors or assistant forest supervisors.</i>		
1 at.....3,180		
6 at \$2,760 each.....16,560		
9 at \$2,640 each.....23,760		
12 at \$2,520 each.....30,240		
20 at \$2,400 each.....48,000		
36 at \$2,280 each.....82,080		
48 at \$2,040 each.....97,920		
16 at \$1,800 each.....28,800		
20 at \$1,680 each.....33,600		
25 at \$1,620 each.....40,500		
<i>Forest rangers.</i>		
18 at \$1,620 each.....29,160		
25 at \$1,500 each.....37,500		
75 at \$1,380 each.....103,500		
100 at \$1,320 each.....132,000		
500 at \$1,200 each.....600,000		
242 at \$1,140 each.....275,880		



*Estimate of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Forest Service—Continued.</i>		
<i>Forest guards.</i>		
55 at \$1,140 each, for periods not exceeding six months in the aggregate.....	\$21,350	
202 at \$1,140 each, for periods not exceeding three months in the aggregate.....	57,570	
<i>Clerks.</i>		
1 at.....	2,100	
4 at \$2,000 each.....	8,000	
19 at \$1,800 each.....	34,200	
24 at \$1,620 each.....	38,880	
38 at \$1,500 each.....	57,000	
40 at \$1,380 each.....	55,200	
45 at \$1,320 each.....	59,400	
80 at \$1,200 each.....	96,000	
80 at \$1,140 each.....	91,200	
60 at \$1,080 each.....	64,800	
45 at \$1,020 each.....	45,900	
73 at \$1,000 each.....	73,000	
1 at.....	900	
<i>Surveyors, draftsmen, artists, photographers, map colorists, blue printers, compilers, or compositors.</i>		
1 at.....	2,040	
6 at \$1,800 each.....	10,800	
9 at \$1,620 each.....	14,580	
17 at \$1,500 each.....	25,500	
14 at \$1,440 each.....	20,160	
8 at \$1,320 each.....	10,560	
16 at \$1,200 each.....	19,200	
6 at \$1,140 each.....	6,840	
9 at \$1,020 each.....	9,180	
<i>Machinists, carpenters, or electricians.</i>		
1 at.....	1,500	
1 at.....	1,320	
6 at \$1,200 each.....	7,200	
<i>Laboratory aids or engineers.</i>		
5 at \$1,200 each.....	6,000	
1 at.....	1,080	
6 at \$1,020 each.....	6,120	
<i>Telephone operators.</i>		
2 at \$840 each.....	1,680	
<i>Watchmen, laboratory helpers, packers, messengers, or laborers.</i>		
8 at \$1,020 each.....	8,160	
2 at \$960 each.....	1,920	
36 at \$900 each.....	32,400	
<i>Messenger boys.</i>		
2 at \$600 each.....	1,200	
1 at.....	540	
5 at \$480 each.....	2,400	
<i>Charwomen.</i>		
1 at.....	540	
1 at.....	480	
1 at.....	300	
11 at \$240 each.....	2,640	
Total.....	2,517,520	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—</i>		
(195) To enable the Secretary of Agriculture to experiment and to make and continue investigations and report on forestry, national forests, forest fires, and lumbering, but no part of this appropriation shall be used for any experiment or test made outside the jurisdiction of the United States; to advise the owners of woodlands as to the proper care of the same; to investigate and test American timber and timber trees and their uses, and methods for the preservative treatment of timber; to seek, through investigations and the planting of native and foreign species, suitable trees for the treeless regions; to erect necessary buildings: <i>Provided</i> , That the cost of any building erected shall not exceed <del>[\$650]</del> \$1,500; to pay all expenses necessary to protect, administer, and improve the national forests, <i>including the payment of rewards under regulations of the Secretary of Agriculture for information leading to arrest and conviction for violation of the laws and regulations relating to fires in or near national forests, or for the unlawful taking of, or injury to, Government property</i> ; to ascertain the natural conditions upon and utilize the national forests; and the Secretary of Agriculture may, in his discretion, permit timber and other forest products cut or removed from the national forests to be exported from the State or Territory in which said forests are respectively situated; to transport and care for fish and game supplied to stock the national forests or the waters therein; to employ agents, clerks, assistants, and other labor required in practical forestry and in the administration of national forests in the city of Washington and elsewhere; to collate, digest, report, and illustrate the results of experiments and investigations made by the Forest Service; to purchase necessary supplies, apparatus, and office fixtures, and technical books and technical journals for officers of the Forest Service stationed outside of Washington, and for medical supplies and services and other assistance necessary for immediate relief of artisans, laborers, and other employees engaged in any hazardous work under the Forest Service; to pay freight, express, telephone, and telegraph charges; for electric light and power, fuel, gas, ice, washing towels, and official traveling and other necessary expenses, including traveling expenses for legal and fiscal officers while performing Forest Service work; and for rent outside of the District of Columbia, as follows ( <i>acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; Oct. 1, 1918, vol. 40, pp. 985-990, sec. 1</i> ):		

NOTE.—It is recommended that the limitation on the cost of buildings to be erected on the national forests be increased from \$650 to \$1,500, the present limitation having been established in the fiscal year 1912. On account of the sharp advances in the cost of material and labor during the past two or three years, it is impossible to construct any buildings at all adequate to the needs of the Forest Service under the present limitation. The cost of hardware, paint, and lumber has increased from 50 to 300 per cent in the last three years, and the cost of labor and hauling has advanced proportionately. During this time, when any building was urgently needed, it has been necessary to leave such building unfinished in some particular, and now it is out of the question to consider any construction at all under this limitation.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		
Experts in the Bureau of Public Roads were requested a year ago to furnish plans and specifications for a three or four-room house to be built within the limitation of \$650. They stated positively that it could not be done and suggested a minimum of \$1,500. Since that time conditions have grown worse rather than better. It has been demonstrated through the experience of commercial builders, experts in the Bureau of Public Roads, and the Forest Service that a building suitable for a forest ranger's headquarters and habitable at all seasons can not ordinarily be constructed under \$1,500. It is well established that a log house can not be constructed as cheaply as one of lumber. Furthermore, the rate of deterioration in unfinished and poorly-constructed buildings is very rapid; and it is beyond question that the influence of living in such buildings is injurious to the health and morale of employees.		
To establish the limitation at \$1,500 will result in direct financial benefit to the Government through prolonged life of buildings, owing to finished construction and minimized depreciation; through reduced maintenance costs resulting from a better quality of labor and material; and through increased efficiency of employees due to satisfactory living quarters in locations where the climate is sometimes decidedly rigorous.		
No original construction, unless absolutely essential, is contemplated in the fiscal year 1920, but the Forest Service should be in a position to replace buildings destroyed by fire or accident or which have become so dilapidated as to be almost uninhabitable and which are absolutely essential to the efficient administration of the national forests.		
A clause has been inserted to provide payment of rewards for information leading to arrest and conviction for violation of the laws and regulations relating to fires in or near national forests, and the unlawful taking of or injury to Government property. Reports of forest officers show that in certain localities many forest fires have been of incendiary origin. Upon receipt of this information notices were posted throughout the national forests that, "provided Congress shall make the necessary appropriation," rewards will be paid for information leading to the arrest and conviction of any person on the charge of willfully and maliciously setting fire to Government timber, undergrowth, etc. These notices produced a very salutary effect, as was evidenced by a considerable reduction in the number of that class of fires. It appears from a decision of the Comptroller of the Treasury that payments of this kind may not be made from moneys appropriated to the Department of Agriculture because of the specific appropriation to the Department of Justice for the detection and prosecution of crimes against the United States. Experience has demonstrated the wisdom of posting notices of rewards for information of the kind mentioned above. To discontinue this offer of payment and to publish the fact that payments could not in future be made would doubtless result in an increase in the number of fires of incendiary origin. The number of instances where payments have been made is relatively small, and the total amount paid has been only a few hundred dollars. The value of property of the Government which has been saved from destruction, however, through the posting of these notices is very great.		
For salaries and field and station expenses, including the maintenance of nurseries, collecting seed, and planting necessary for the use, maintenance, improvement, and protection of the national forests named below ( <i>acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; Oct. 1, 1918, vol. 40, pp. 985-990, sec. 1</i> ):		
(196) Absaroka National Forest, Montana----- \$6,703.00		
(197) Angeles National Forest, California----- 11,926.00		
(198) Apache National Forest, Arizona----- 8,079.00		
(199) Arapahoe National Forest, Colorado----- 5,736.00		
(200) Arkansas National Forest, Arkansas----- 10,730.00		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		
(201) Ashley National Forest, Utah and Wyoming----- \$3,865.00		
(202) Battlement National Forest, Colorado----- 4,916.00		
(203) Beartooth National Forest, Montana [\\$4,313]-- 5,437.00		
(204) Beaverhead National Forest, Montana and Idaho----- 5,296.00		
(205) Bighorn National Forest, Wyoming----- 6,937.00		
(206) Bitterroot National Forest, Montana [\\$10,367]-- 17,189.00		
(207) Blackfeet National Forest, Montana [\\$12,969]-- 19,888.00		
(208) Black Hills National Forest, South Dakota and Wyoming----- 12,668.00		
NOTE.—The words "and Wyoming" have been added, since 179,121 acres of the Black Hills National Forest are located in Wyoming. This portion of the forest was formerly the Sundance National Forest, which was consolidated with the Black Hills National Forest April 6, 1915, but through inadvertence this matter was not corrected in the estimates for the subsequent years.		
(209) Boise National Forest, Idaho----- 5,247.00		
(210) Bridger National Forest, Wyoming----- 3,159.00		
(211) Cabinet National Forest, Montana [\\$9,133]--- 16,806.00		
(212) Cache National Forest, Utah and Idaho----- 2,207.00		
(213) California National Forest, California----- 15,028.00		
(214) Caribou National Forest, Idaho and Wyoming-- 6,403.00		
(215) Carson National Forest, New Mexico----- 9,302.00		
(216) Cascade National Forest, Oregon----- 7,835.00		
(217) Challis National Forest, Idaho----- 3,668.00		
(218) Chelan National Forest, Washington----- 6,260.00		
(219) Chugach National Forest, Alaska----- 7,938.00		
(220) Clearwater National Forest, Idaho [\\$12,665]-- 38,201.00		
(221) Cleveland National Forest, California----- 8,433.00		
(222) Cochetopa National Forest, Colorado----- 5,931.00		
(223) Coconino National Forest, Arizona [\\$16,368]-- 21,673.00		
(224) Coeur d'Alene National Forest, Idaho [\\$36,717]-- 53,290.00		
(225) Colorado National Forest, Colorado [\\$3,959]-- 7,459.00		
(226) Columbia National Forest, Washington----- 9,758.00		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		
(227) Colville National Forest, Washington [§6,883]— \$11,183.00		
(228) Coronado National Forest, Arizona and New Mexico [§9,044]----- 11,050.00		
NOTE.—The words "and New Mexico" have been added, since 129,152 acres of the Coronado National Forest are located in New Mexico. This portion of the forest was formerly part of the Chiricahua National Forest, which was consolidated with the Coronado National Forest on July 1, 1917.		
(229) Crater National Forest, Oregon and California [§19,288]----- 22,688.00		
(230) Crook National Forest, Arizona----- 3,735.00		
(231) Custer National Forest, Montana----- 2,830.00		
(232) Datil National Forest, New Mexico [§11,009]-- 13,950.00		
(233) Deerlodge National Forest, Montana----- 19,813.00		
(234) Deschutes National Forest, Oregon----- 10,175.00		
(235) Dixie National Forest, Utah, [and] Arizona, and Nevada----- 1,596.00		
NOTE.—The words "Utah and Arizona" have been changed to "Utah, Arizona, and Nevada," since 290,350 acres of the Dixie National Forest are located in Nevada. This portion of the forest was formerly a part of the Toiyabe National Forest and was transferred to the Dixie National Forest May 10, 1916.		
(236) Durango National Forest, Colorado----- 4,964.00		
(237) Eldorado National Forest, California and Nevada 10,238.00		
(238) Fillmore National Forest, Utah----- 4,987.00		
(239) Fishlake National Forest, Utah----- 2,320.00		
(240) Flathead National Forest, Montana [§25,900]-- 51,826.00		
(241) Florida National Forest, Florida----- 4,927.00		
(242) Fremont National Forest, Oregon----- 5,427.00		
(243) Gallatin National Forest, Montana----- 4,810.00		
(244) Gila National Forest, New Mexico [§8,907]--- 10,847.00		
(245) Gunnison National Forest, Colorado----- 5,371.00		
(246) Harney National Forest, South Dakota----- 6,535.00		
(247) Hayden National Forest, Wyoming and Colorado 5,868.00		
(248) Helena National Forest, Montana----- 4,012.00		
(249) Holy Cross National Forest, Colorado----- 6,394.00		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		
(250) Humboldt National Forest, Nevada [§5,780]... \$6,330.00		
(251) Idaho National Forest, Idaho [§11,585]..... 18,385.00		
(252) Inyo National Forest, California and Nevada... 3,076.00		
(253) Jefferson National Forest, Montana [§5,064]... 8,430.00		
(254) Kaibab National Forest, Arizona..... 2,708.00		
(255) Kaniksu National Forest, Idaho and Washington [§25,146]..... 34,943.00		
(256) Klamath National Forest, California and Oregon .. 20,249.00		
NOTE.—The words "and Oregon" have been added, since 8,893 acres of the Klamath National Forest are located in Oregon. This portion of the forest was formerly a part of the Crater National Forest and was transferred to the Klamath National Forest July 1, 1911.		
(257) Kootenai National Forest, Montana [§17,861].. 26,102.00		
(258) La Sal National Forest, Utah and Colorado.... 2,754.00		
(259) Lassen National Forest, California..... 14,181.00		
(260) Leadville National Forest, Colorado..... 5,524.00		
(261) Lemhi National Forest, Idaho..... 2,490.00		
(262) Lewis and Clark National Forest, Montana [§5,915]..... 10,626.00		
(263) Lincoln National Forest, New Mexico [§9,984].. 11,178.00		
(264) Lolo National Forest, Montana [§11,939].... 26,652.00		
(265) Luquillo National Forest, Porto Rico..... 1,700.00		
(266) Madison National Forest, Montana..... 3,930.00		
(267) Malheur National Forest, Oregon..... 6,091.00		
(268) Manti National Forest, Utah [§5,090]..... 6,090.00		
(269) Manzano National Forest, New Mexico..... 5,860.00		
(270) Medicine Bow National Forest, Wyoming..... 6,450.00		
(271) Michigan National Forest, Michigan..... 1,981.00		
(272) Minam National Forest, Oregon..... 6,476.00		
(273) Minidoka National Forest, Idaho and Utah.... 4,709.00		
(274) Minnesota National Forest, Minnesota..... 2,970.00		
(275) Missoula National Forest, Montana [§9,380]... 15,212.00		
(276) Modoc National Forest, California..... 7,388.00		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		
(277) Mono National Forest, Nevada and California .....	\$1, 647. 00	
(278) Monterey National Forest, California .....	3, 547. 00	
(279) Montezuma National Forest, Colorado .....	4, 670. 00	
(280) Nebraska National Forest, Nebraska, \$1,165; and to extend the work to the Niobrara division thereof, \$5,000: <i>Provided</i> , That from the nurseries on said forest the Secretary of Agriculture, under such rules and regulations as he may prescribe, may furnish young trees free, so far as they may be spared, to residents of the territory covered by "An Act increasing the area of homesteads in a portion of Nebraska," approved April twenty-eighth, nineteen hundred and four [; <i>Provided further</i> , That the cost of any building erected at the nurseries on the Nebraska National Forest may amount to but shall not exceed \$1,000].	6, 165. 00	
NOTE.—The second proviso in this paragraph relating to the cost of buildings at nurseries has been omitted, in view of the recommendation under the enabling clause of general expenses that the limitation on the cost of buildings to be erected on the national forests be increased from \$650 to \$1,500.		
(281) Nevada National Forest, Nevada .....	2, 249. 00	
(282) Nez Perce National Forest, Idaho [\$12,620] .....	25, 690. 00	
(283) Ochoco National Forest, Oregon .....	6, 451. 00	
(284) Okanogan National Forest, Washington [\$8,964] .....	11, 464. 00	
(285) Olympic National Forest, Washington .....	16, 598. 00	
(286) Oregon National Forest, Oregon [\$16,009] .....	20, 409. 00	
(287) Ozark National Forest, Arkansas .....	9, 030. 00	
(288) Payette National Forest, Idaho .....	8, 537. 00	
(289) Pend Oreille National Forest, Idaho [\$12,020] .....	20, 074. 00	
(290) Pike National Forest, Colorado .....	13, 373. 00	
(291) Plumas National Forest, California .....	19, 803. 00	
(292) Powell National Forest, Utah .....	1, 010. 00	
(293) Prescott National Forest, Arizona .....	6, 255. 00	
(294) Rainier National Forest, Washington .....	13, 035. 00	
(295) Rio Grande National Forest, Colorado .....	7, 157. 00	
(296) Routt National Forest, Colorado .....	6, 585. 00	
(297) Saint Joe National Forest, Idaho [\$15, 830] .....	32, 026. 00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		
(298) Salmon National Forest, Idaho [\$5,377]-----	\$6,177.00	
(299) San Isabel National Forest, Colorado-----	3,924.00	
(300) San Juan National Forest, Colorado-----	5,534.00	
(301) Santa Barbara National Forest, California-----	9,774.00	
(302) Santa Fe National Forest, New Mexico [\$14,673]-----	17,040.00	
(303) Santiam National Forest, Oregon-----	7,852.00	
(304) Sawtooth National Forest, Idaho-----	4,953.00	
(305) Selway National Forest, Idaho [\$17,112]-----	47,367.00	
(306) Sequoia National Forest, California-----	13,744.00	
(307) Sevier National Forest, Utah-----	2,110.00	
(308) Shasta National Forest, California-----	17,425.00	
(309) Shoshone National Forest, Wyoming-----	7,381.00	
(310) Sierra National Forest, California-----	15,750.00	
(311) Sioux National Forest, South Dakota and Montana-----	2,640.00	
(312) Siskiyou National Forest, Oregon and California-----	12,660.00	
(313) Sitgreaves National Forest, Arizona-----	8,341.00	
(314) Siuslaw National Forest, Oregon-----	6,042.00	
(315) Snoqualmie National Forest, Washington [\$12,366]-----	13,566.00	
(316) Sopris National Forest, Colorado-----	5,411.00	
(317) Stanislaus National Forest, California-----	14,697.00	
(318) Superior National Forest, Minnesota-----	9,809.00	
(319) Tahoe National Forest, California and Nevada-----	16,337.00	
(320) Targhee National Forest, Idaho and Wyoming-----	9,558.00	
(321) Teton National Forest, Wyoming-----	4,404.00	
(322) Toiyabe National Forest, Nevada-----	3,694.00	
(323) Tongass National Forest, Alaska-----	15,224.00	
(324) Tonto National Forest, Arizona [\$6,972]-----	7,685.00	
(325) Trinity National Forest, California-----	19,484.00	
(326) Tusayan National Forest, Arizona -----	12,904.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		
(327) Uintah National Forest, Utah----- \$4, 555.00		
(328) Umatilla National Forest, Oregon----- 6, 562.00		
(329) Umpqua National Forest, Oregon [\\$10,109]--- 13, 509.00		
(330) Uncompahgre National Forest, Colorado----- 6, 690.00		
(331) Wallowa National Forest, Oregon----- 9, 617.00		
(332) Wasatch National Forest, Utah----- 5, 000.00		
(333) Washakie National Forest, Wyoming----- 6, 726.00		
(334) Washington National Forest, Washington----- 7, 642.00		
(335) Weiser National Forest, Idaho----- 6, 493.00		
(336) Wenaha National Forest, Washington and Oregon----- 5, 420.00		
(337) Wenatchee National Forest, Washington----- 11, 884.00		
(338) White River National Forest, Colorado----- 6, 272.00		
(339) Whitman National Forest, Oregon [\\$17,425]--- 18, 725.00		
(340) Wichita National Forest, Oklahoma----- 2, 416.00		
(341) Wyoming National Forest, Wyoming----- 5, 089.00		
(342) Additional national forests created or to be created under section eleven of the act of March first, nineteen hundred and eleven (Thirty-sixth Statutes at Large, page nine hundred and sixty-three), and lands under contract for purchase or for the acquisition of which condemnation proceedings have been instituted for the purposes of said act, [\\$65,200]----- 76, 850.00		
(343) For necessary miscellaneous expenses incident to the general administration of the Forest Service and of the national forests specified above:		
(344) In National Forest District One----- 61, 700.00		
(345) In National Forest District Two----- 47, 800.00		
(346) In National Forest District Three----- 55, 200.00		
(347) In National Forest District Four----- 49, 500.00		
(348) In National Forest District Five----- 69, 740.00		
(349) In National Forest District Six----- 60, 800.00		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		
(350) In National Forest District Seven----- \$14,900.00		
(351) In the District of Columbia----- 122,850.00		
(352) In all, for the use, maintenance, improvement, protection, and general administration of the specified national forests, <b>[\$1,803,127]</b> <b>\$2,069,201:</b> <i>Provided</i> , That the foregoing amounts appropriated for such purposes shall be available interchangeably in the discretion of the Secretary of Agriculture for the necessary expenditures for fire protection and other unforeseen exigencies: <i>Provided further</i> , That the amounts so interchanged shall not exceed in the aggregate ten per centum of all the amounts so appropriated ( <i>acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; Oct. 1, 1918, vol. 40, pp. 985–990, sec. 1</i> ) -----	\$2,069,201.00	
NOTE.—There is an increase in the above item of \$266,074. It is proposed to expend this amount as follows: (a) \$225,568 for additional fire protection on the Bear-tooth, Bitterroot, Blackfeet, Cabinet, Clearwater, Coeur d'Alene, Colville, Coronado, Crater, Flathead, Gila, Idaho, Jefferson, Kaniksu, Kootenai, Lewis and Clark, Lolo, Missoula, Nez Perce, Okanogan, Oregon, Pend Oreille, Saint Joe, Salmon, Selway, and Umpqua National Forests. In the case of some of these forests it has been found that the normal protective force which has been provided in the past is insufficient to meet the fire situation. Large areas in these forests are far removed from settlements, and when fires occur it is difficult, owing to inadequate means of transportation and long distances, to secure emergency fire fighters promptly. In order to remedy this situation it will be necessary to place the regular protective short-term organization on a 4-months basis. The present protective organization is based on 2 or 3 months employment for lookouts, smoke chasers, and patrolmen. This is the actual period of the season of greatest fire hazard and does not provide for a period of instruction, training, and preparation prior to entering upon the protective work, which is the key to any effective organization. The experience of the past has brought home very forcibly the fact that these inexperienced employees require some training and preparation in order to render their service effective. Furthermore, the period of 2 or 3 months is not attractive enough to secure the character of men required. Four months of this work would place the Forest Service protective work on a par with other field and woods activities and tend to draw the type of men needed to build up an effective fire organization. (b) \$5,000 for the maintenance of Government stock. This amount is needed to cover the increased cost of maintaining Government stock now assigned to and needed on the Bitterroot, Blackfeet, Clearwater, Flathead, Nez Perce, and Selway National Forests. It is necessary to maintain teams and pack trains for protective and administrative purposes. The cost of forage and the necessary shoeing, etc., of horses has increased steadily during the past two years, and further advances may be expected. Figures are now at hand showing a general increase in the price of horse feed due to the failure of local crops and the fact that large areas formerly devoted to hay raising have been put into grain and other crops.		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Forest Service—Continued.*

(c) \$22,002 for the employment of additional forest assistants and scalers and for brush burning and other expenses incident to increased timber-sale business on the Coconino, Coronado, Gila, Lincoln, Santa Fe, Snoqualmie, and Whitman National Forests, and on the new forests purchased under the Weeks law, which can not be properly handled by the present force.

(d) \$5,304 incident to the administration of grazing on the Coconino, Datil, Humboldt, Manti, and Tonto National Forests. In view of the increased number of stock carried on the national-forest ranges, studies will need to be made of range management looking to the most economical use of forage, the most equitable distribution of the range between the hundreds of permittees, and other problems relating to the enforcement of the grazing regulations. In this connection, additional assistance will be necessary, and some of the funds will be required to cover the increased cost of travel and supplies.

(e) \$3,500 for the administration and protection of 470,394 acres added to the Colorado National Forest by Presidential proclamation of June 27, 1917, under Congressional authority. For this purpose two additional rangers and 4 summer guards are required. On account of the increased territory and the largely increased timber-sale business it will be necessary also to employ a forest examiner. Provision for travel and other expenses will also have to be made. There has been no increase in the appropriation for the Colorado National Forest since this large area was added.

(f) \$4,700 for general administrative expenses on the Datil, Salmon, and Tonto National Forests and on the new forests included in the areas purchased under the Weeks law. This increase is made necessary on account of the great influx of settlers on one of the forests and the consequent increase in the work of surveys and examination of land; advance in the cost of travel and supplies; administration and protection of new areas, etc.

*National forests.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Examiner.....per annum.	\$2,000.00	1	.....
Examiners.....do.....	1,920.00	2	.....
Examiners.....do.....	1,800.00	5	5 (1 temp.)
Examiners.....do.....	1,700.00	2 (1 part time)	4 (1 part time)
Examiners.....do.....	1,620.00	4	5 (1 temp.)
Examiners.....do.....	1,600.00	6	5
Examiners.....do.....	1,500.00	17 (1 part time)	15 (1 part time, 2 temp.)
Examiners.....do.....	1,440.00	4	.....
Examiners.....do.....	1,400.00	9	17 (7 temp.)
Examiners.....do.....	1,380.00	3	1
Examiners.....do.....	1,300.00	3	9 (1 temp.)
Examiners.....do.....	1,260.00	3	.....
Examiners.....do.....	1,200.00	1	3
Examiners.....do.....	1,100.00	.....	3
Assistants.....do.....	1,200.00	.....	3 (temp.)
Assistants.....do.....	1,100.00	1	10 (9 temp.)
Lumberman.....do.....	1,740.00	1	.....
Lumberman.....do.....	1,700.00	1	1
Lumberman.....do.....	1,600.00	2	3
Lumberman.....do.....	1,500.00	1	.....
Lumberman.....do.....	1,400.00	.....	1
Timber cruiser.....do.....	1,740.00	1	.....
Timber cruiser.....do.....	1,600.00	.....	1
Scaler.....do.....	1,440.00	1	.....
Scalers.....do.....	1,400.00	7	7
Scalers.....do.....	1,300.00	4	5
Scalers.....do.....	1,200.00	4	5 (temp.)
Scalers.....do.....	1,100.00	4	3
Scalers.....do.....	1,020.00	13	13
Forest supervisors.....do.....	2,400.00	2	.....
Forest supervisors*.....do.....	2,000.00	1	3 (*1)
Forest supervisors.....do.....	1,800.00	3	2
Assistant forest supervisor.....do.....	1,600.00	1	1
Ranger*.....do.....	1,500.00	.....	1
Rangers*.....do.....	1,400.00	1	2

\* Transferred to statutory roll in Agricultural act for 1919.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Forest Service—Continued.**National forests—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries—Continued.			
Rangers.....per annum.....	\$1,200.00	2	2
Ranger.....do.....	1,100.00	1	1
Ranger.....do.....	1,000.00	1	1
Guard.....do.....	1,800.00	1 (temp.)	1 (temp.)
Guard.....do.....	1,500.00	1 (temp.)	1 (temp.)
Guard.....do.....	1,440.00	1 (temp.)	1 (temp.)
Guard.....do.....	1,320.00	1 (temp.)	1 (temp.)
Guard.....do.....	1,300.00	1 (temp.)	1 (temp.)
Guards.....do.....	1,200.00	7 (temp.)	7 (temp.)
Pilot and gas engineer.....do.....	1,500.00	1	1
Gas engineer.....do.....	1,200.00	1	1
Clerk *.....do.....	1,200.00	1	3 (*2)
Clerks.....do.....	1,100.00	3	3
Clerk.....do.....	1,020.00	1	1 (temp.)
Clerks *.....do.....	900.00	....	4
Logging engineers, scalers, rangers, draftsmen, telephone operators, janitors, charwomen, transitmen, compassmen, rodmen, guards, teamsters, clerks, cooks—			
\$990 to \$12.....do.....	192 (96 temp.)	366 (281 temp.)	
\$7.20 to \$1.50.....per diem.....	470 (temp.)	631 (temp.)	
\$0.50 to \$0.25.....per hour.....	28 (temp.)	36 (temp.)	
Wages:			
Temporary laborers, \$1,260 per annum to \$0.25.....per hour.....	1,680	1,791	
	2,501	2,970	
Salaries.....	\$584,300.00	\$517,336.00	
Wages.....	291,471.00	271,417.00	
Other objects of expenditure:			
Traveling expenses.....	227,190.00	201,763.00	
Equipment and material.....	147,060.00	132,340.00	
Telegraph and telephone service.....	18,100.00	17,734.00	
Miscellaneous items.....	318,590.00	243,757.00	
Total.....	1,586,711.00	1,330,347.00	

\* Transferred to statutory roll in Agricultural act for 1919.

*General administration.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Associate forester.....per annum.....	\$4,500.00	1	..
Associate forester.....do.....	4,000.00	..	1
Assistant forester.....do.....	4,000.00	2	..
Assistant forester.....do.....	3,750.00	1	2 (1 temp.)
Assistant forester.....do.....	3,500.00	1	1
Assistant forester.....do.....	3,200.00	..	2
District forester.....do.....	3,600.00	3	..
District forester.....do.....	3,200.00	1	6 (2 temp.)
Assistant district forester.....do.....	3,200.00	5	..
Assistant district forester.....do.....	3,000.00	11	2
Assistant district forester.....do.....	2,900.00	1	5
Assistant district forester.....do.....	2,800.00	2	..
Assistant district forester.....do.....	2,700.00	3	12 (2 temp.)
Assistant district forester.....do.....	2,600.00	..	2
Assistant district forester.....do.....	2,500.00	1	4
Assistant district forester.....do.....	2,400.00	2	1
Assistant district forester.....do.....	2,200.00	..	1 (temp.)
Assistant district forester.....do.....	2,000.00	..	1
Inspectors.....do.....	3,500.00	1	..
Inspectors.....do.....	3,000.00	3	5 (1 temp.)
Inspectors.....do.....	2,700.00	2	3 (1 temp.)
Inspectors.....do.....	2,400.00	2	2
Inspectors.....do.....	2,250.00	1	..
Inspectors.....do.....	2,200.00	1	1
Inspectors.....do.....	2,100.00	1	1
Inspectors.....do.....	2,000.00	2	2
Inspectors.....do.....	1,800.00	1	1
Inspectors.....do.....	1,740.00	1	..
Inspectors.....do.....	1,700.00	1	1
Inspectors.....do.....	1,600.00	..	2
Chief of claims.....do.....	2,400.00	1	1
Attorney in charge of forest appeals.....do.....	3,250.00	1	1
Chief engineer.....do.....	4,000.00	1	..
Chief engineer.....do.....	3,750.00	..	1
Engineers.....do.....	3,000.00	2	1
Engineers.....do.....	2,800.00	1	1
Engineers.....do.....	2,700.00	2	2
Engineers.....do.....	2,600.00	4	4 (1 temp.)
Engineers.....do.....	2,400.00	2	5 (1 temp.)



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		
<i>General administration—Continued.</i>		
Employees.	Rate.	Estimated, 1920. <i>Number.</i>
		Expended, 1918. <i>Number.</i>
Salaries—Continued.		
Engineers.....per annum..	\$2,200.00	3
Engineers.....do.....	2,000.00	2
Engineers.....do.....	1,800.00	1
Industrial examiner in forest products.....do.....	3,500.00	1 (new)
Lumberman.....do.....	2,100.00	1
Lumberman.....do.....	2,000.00	1
Lumberman.....do.....	1,800.00	3
Examiners.....do.....	2,700.00	1
Examiners.....do.....	2,400.00	3 (1 pt. time)
Examiners.....do.....	2,300.00	1
Examiners.....do.....	2,200.00	1
Examiners.....do.....	2,100.00	4 (pt. time)
Examiners.....do.....	2,040.00	1
Examiners.....do.....	2,000.00	4
Examiners.....do.....	1,900.00	1 (temp.)
Examiners.....do.....	1,800.00	5 (1 pt. time)
Examiners.....do.....	1,740.00	3 (1 pt. time)
Examiners.....do.....	1,700.00	3 (1 temp.)
Examiners.....do.....	1,620.00	2
Examiners.....do.....	1,600.00	7
Examiners.....do.....	1,500.00	2
Examiners.....do.....	1,440.00	2
Examiners.....do.....	1,400.00	1
Examiners.....do.....	1,200.00	..
Property assistant.....do.....	2,250.00	1
Surveyor or draftsman.....do.....	1,700.00	..
Surveyor or draftsman.....do.....	1,600.00	1
Surveyor or draftsman.....do.....	1,500.00	2
Surveyor or draftsman.....do.....	1,400.00	..
Draftsman *.....do.....	1,400.00	1
Draftsman.....do.....	1,200.00	1
Surveyor.....do.....	1,800.00	1
Surveyor.....do.....	1,500.00	1
Deputy forest supervisor.....do.....	1,500.00	1
Ranger.....do.....	1,200.00	1
Clerk.....do.....	1,100.00	1
Blue printer.....do.....	1,200.00	1
Blue printer *.....do.....	900.00	2
Messenger boys *.....do.....	360.00	..
Telephone operators *.....do.....	600.00	2
Examiners, collaborators, clerks, engineers, blue printers, laboratory assistants, forest assistants, map colorists, messengers, watchmen, janitors, and charwomen, \$1,000 to \$12.....do.....	11 (2 temp.)	18 (9 temp.)
Wages:		
Miscellaneous temporary laborers, \$75 per month to \$2 per diem.....	19	47
	156	222
Salaries.....	\$337,650.00	\$309,427.00
Wages.....	4,175.00	6,131.00
Other objects of expenditure:		
Traveling expenses.....	107,220.00	114,720.00
Equipment and material.....	10,200.00	12,319.00
Telegraph and telephone service.....	12,500.00	11,474.00
Miscellaneous items.....	10,745.00	31,989.00
Total.....	482,490.00	486,060.00

\* Transferred to statutory roll in Agricultural act for 1919.

- (353) For the selection, classification, and segregation of lands within the boundaries of national forests that may be opened to homestead settlement and entry under the homestead laws applicable to the national forests; [ ] and for the examination and appraisal of lands in effecting exchanges authorized by law [ ], \$70,100]; and for the survey and platting of certain lands, chiefly valuable for agriculture, now listed or to be listed within the national forests, under the Act of June eleventh, nineteen hundred and six (Thirty-fourth Statutes, page two hundred and thirty-three), and the Act of March third, eighteen hundred and ninety-nine (Thirtieth Statutes, page one thousand and ninety-five), as provided by the Act of March fourth, nineteen hundred and thirteen, [ \$49,700] \$107,000 [ ]: Provided, That any unexpended balance of an appropriation of \$69,300 to be expended "for the survey and



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Forest Service—Continued.*

platting of certain lands, chiefly valuable for agriculture," and so forth, provided by the Act of March fourth, nineteen hundred and seventeen, entitled "An Act making appropriations for the Department of Agriculture for the fiscal year ending June thirtieth, nineteen hundred and eighteen," be, and the same is hereby, continued and made available for and during the fiscal year ending June thirtieth, nineteen hundred and nineteen, for the purpose of this appropriation] (acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; Oct. 1, 1918, vol. 40, pp. 985-990, sec. 1) ----- \$107,000.00

NOTE.—The items for land classification and entry surveys have been combined in one paragraph, showing an apparent decrease in the total appropriation of \$12,800, but, taking into consideration the transfer to the statutory roll of a surveyor, at \$1,800, the actual decrease is only \$1,000, which is made possible by the completion of land classification in a number of localities and a consequent reduction in the number of parties engaged in this work. It is not believed advisable, however, to further curtail this work, since it seems desirable to classify and survey all suitable areas as rapidly as possible in order to meet any demand that may arise when normal conditions are restored.

The object of combining these items is twofold. In the first place, the lines of work are so similar and the training and qualifications of the men employed are so nearly identical that it is difficult to distinguish between the two. In fact, the men engaged on classification work must also be surveyors, and the men engaged on entry-survey work must be qualified to classify land. In the second place, the increased elasticity resulting from this combination will make it possible to omit the special proviso continuing the unexpended balance of the entry-survey fund. It is believed to be desirable to omit this special proviso, since it is rather an obscure and unusual form of appropriation and with the combined funds will be no longer necessary.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Examiners.....per annum..	\$2,340.00	2	...
Examiners.....do.....	2,200.00	2	2
Examiners.....do.....	2,000.00	2	...
Examiners.....do.....	1,920.00	1	...
Examiners.....do.....	1,800.00	3	4
Examiners.....do.....	1,700.00	1	3
Examiners.....do.....	1,600.00	1	1
Examiners.....do.....	1,440.00	1	...
Surveyor-draftsman f.....do.....	1,800.00	...	1
Surveyor-draftsman *.....do.....	1,600.00	...	1
Surveyor-draftsman.....do.....	1,500.00	1	4 (3 *)
Surveyor-draftsman.....do.....	1,400.00	2	6 (4 *)
Surveyor.....do.....	1,600.00	1	1
Surveyor.....do.....	1,500.00	...	1 (temp.)
Draftsman.....do.....	1,400.00	1	1
Draftsman.....do.....	1,320.00	1	1
Draftsman.....do.....	1,200.00	1	4 (1 temp., 2 *)
Ranger *.....do.....	1,200.00	...	1
Clerk *.....do.....	1,400.00	1	1
Clerk.....do.....	1,020.00	1	1
Map colorists, blue printers, transitmen, rodmen, timber estimator, clerks, and field assistants, \$1,000 per annum to \$60 .....per month..		18(14 temp.)	21(16 temp.)
Wages:			
Temporary laborers, \$900 per annum to \$2.50.....per diem..		80	94
		118	148
Salaries.....	\$40,785.00	\$55,756.00	
Wages.....	19,990.00	23,250.00	
Other objects of expenditure:			
Traveling expenses.....	25,693.00	36,290.00	
Equipment and material.....	7,855.00	3,689.00	
Miscellaneous items.....	12,677.00	28,500.00	
Total.....	107,000.00	147,485.00	

\* Transferred to statutory roll in Agricultural act for 1919.

f Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Forest Service—Continued.*

- (354) For fighting and preventing forest fires and for other unforeseen emergencies (*acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; Oct. 1, 1918, vol. 40, pp. 985–990, sec. 1*) ----- \$150,000.00

Employees.	Rate.	Estimated, 1920.*	Expended, 1918.
		Number.	Number.
Salaries:			
Examiners, rangers, guards, and other forest employees from \$1,600 per annum to \$0.25....per hour		63	
Wages:			
Temporary laborers, from \$0.40 to \$0.25.....do.....		11,892	
		11,955	
Salaries.....		\$14,862.00	
Wages.....		944,703.00	
Other objects of expenditure:			
Traveling expenses.....		49,816.00	
Equipment and material.....		92,690.00	
Miscellaneous items.....		32,512.00	
Total.....		\$150,000.00	1,134,583.00

\* This being an emergency appropriation, a detailed estimate of classified expenditures for the fiscal year 1920 is not practicable.

- (355) For the purchase and maintenance of necessary field, office, and laboratory supplies, instruments, and equipments (*same acts*) ----- 161,100.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Property assistant.....per annum.....	\$2,500.00	1	..
Clerk.....do.....	2,120.00	1	..
		2	..
Salaries.....		\$4,620.00	
Other objects of expenditure:			
Stationery.....		38,590.00	\$35,000.00
Traveling expenses.....		1,845.00	1,585.00
Equipment and material.....		115,208.00	112,520.00
Miscellaneous items.....		837.00	11,508.00
Total.....		161,100.00	160,613.00

- (356) For investigations of methods for wood distillation and for the preservative treatment of timber, for timber testing, and the testing of such woods as may require test to ascertain if they be suitable for making paper, for investigations and tests within the United States of foreign woods of commercial importance to industries in the United States, and for other investigations and experiments to promote economy in the use of forest products, and for commercial demonstrations of improved methods or processes, in cooperation with individuals and companies [\$173,260] (*same acts*) ----- 208,260.00

NOTE.—There is an increase in the above item of \$35,000. Expenditures for forest products investigations at the Forest Products Laboratory at Madison, Wis., during the current fiscal year will probably exceed the Forest Service appropriation by about \$450,000, and the requirements are growing rapidly. The work covers practically the entire field of the properties, selection, conditioning, and use of wood and other forest products in warfare, including airplanes, shipbuilding, vehicle manufac-



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																																																																																																																																																																
<i>General Expenses, Forest Service—Continued.</i>																																																																																																																																																																																																																																																																																		
ture, gas warfare, boxing and packing, etc. Where the work is conducted for the War and Navy Departments, allotments are made to cover increased requirements. In part, however, the increase represents the growing demands upon the organization for help by the wood-using industries engaged in producing war materials and is not properly chargeable against War and Navy Department allotments.																																																																																																																																																																																																																																																																																		
The demands for help from the industries include advice regarding the properties of wood, in many cases involving special tests of new woods for special purposes; advice concerning the application of test data under new conditions; a large amount of help as to methods of kiln drying airplane and vehicle woods and gunstock material, in which connection requirements as to methods and speed are more exacting than ever before under Government specifications and inspection; assistance in the commercial application of new methods of gluing and other phases of plywood manufacture, and, in general, advice and assistance to all industries which use wood and forest products.																																																																																																																																																																																																																																																																																		
<table border="1"> <thead> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1920.</th><th>Expended, 1918.</th></tr> </thead> <tbody> <tr> <td>Salaries:</td><td></td><td>Number.</td><td>Number.</td></tr> <tr> <td>Director.....per annum.....</td><td>\$3,600.00</td><td>1</td><td>..</td></tr> <tr> <td>Director.....do.....</td><td>3,000.00</td><td>..</td><td>1</td></tr> <tr> <td>Assistant director.....do.....</td><td>3,200.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistant director.....do.....</td><td>2,900.00</td><td>..</td><td>1</td></tr> <tr> <td>Consulting engineer.....do.....</td><td>3,500.00</td><td>1</td><td>1</td></tr> <tr> <td>Specialist in kiln-drying.....do.....</td><td>1,800.00</td><td>1</td><td>..</td></tr> <tr> <td>Engineer.....do.....</td><td>3,200.00</td><td>1</td><td>..</td></tr> <tr> <td>Engineers.....do.....</td><td>3,000.00</td><td>2</td><td>1</td></tr> <tr> <td>Engineer.....do.....</td><td>2,800.00</td><td>..</td><td>1</td></tr> <tr> <td>Engineers.....do.....</td><td>2,700.00</td><td>3</td><td>1</td></tr> <tr> <td>Engineer.....do.....</td><td>2,600.00</td><td>1</td><td>..</td></tr> <tr> <td>Engineers.....do.....</td><td>2,500.00</td><td>2</td><td>2</td></tr> <tr> <td>Engineers.....do.....</td><td>2,400.00</td><td>5</td><td>5</td></tr> <tr> <td>Engineers.....do.....</td><td>2,300.00</td><td>2</td><td>1</td></tr> <tr> <td>Engineers.....do.....</td><td>2,200.00</td><td>5</td><td>3</td></tr> <tr> <td>Engineer.....do.....</td><td>2,100.00</td><td>..</td><td>1</td></tr> <tr> <td>Engineer.....do.....</td><td>2,020.00</td><td>1</td><td>..</td></tr> <tr> <td>Engineer.....do.....</td><td>2,000.00</td><td>1</td><td>..</td></tr> <tr> <td>Engineer.....do.....</td><td>1,900.00</td><td>..</td><td>1</td></tr> <tr> <td>Engineers.....do.....</td><td>1,800.00</td><td>3</td><td>4</td></tr> <tr> <td>Assistant engineers.....do.....</td><td>1,800.00</td><td>4</td><td>2</td></tr> <tr> <td>Assistant engineers.....do.....</td><td>1,700.00</td><td>4</td><td>2</td></tr> <tr> <td>Assistant engineers.....do.....</td><td>1,600.00</td><td>2</td><td>3 (1 temp.)</td></tr> <tr> <td>Assistant engineers.....do.....</td><td>1,500.00</td><td>6</td><td>7</td></tr> <tr> <td>Assistant engineer.....do.....</td><td>1,400.00</td><td>..</td><td>1</td></tr> <tr> <td>Assistant engineers.....do.....</td><td>1,300.00</td><td>4</td><td>5</td></tr> <tr> <td>Assistant engineers.....do.....</td><td>1,200.00</td><td>6</td><td>6</td></tr> <tr> <td>Laboratory aid and engineer.....do.....</td><td>1,200.00</td><td>1</td><td>1</td></tr> <tr> <td>Wood technologist.....do.....</td><td>2,000.00</td><td>2</td><td>1</td></tr> <tr> <td>Box inspector.....do.....</td><td>2,000.00</td><td>1</td><td>1</td></tr> <tr> <td>Chemist in forest products.....do.....</td><td>3,000.00</td><td>1</td><td>..</td></tr> <tr> <td>Chemists in forest products.....do.....</td><td>2,600.00</td><td>3</td><td>..</td></tr> <tr> <td>Chemist in forest products.....do.....</td><td>2,500.00</td><td>1</td><td>..</td></tr> <tr> <td>Chemist in forest products.....do.....</td><td>2,400.00</td><td>..</td><td>3</td></tr> <tr> <td>Chemist in forest products.....do.....</td><td>2,200.00</td><td>..</td><td>1</td></tr> <tr> <td>Chemist in forest products.....do.....</td><td>2,100.00</td><td>..</td><td>1</td></tr> <tr> <td>Chemists in forest products.....do.....</td><td>1,800.00</td><td>2</td><td>1</td></tr> <tr> <td>Chemist in forest products.....do.....</td><td>1,700.00</td><td>..</td><td>1</td></tr> <tr> <td>Assistant chemist in forest products.....do.....</td><td>1,800.00</td><td>1</td><td>1</td></tr> <tr> <td>Assistant chemist in forest products.....do.....</td><td>1,600.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistant chemist in forest products.....do.....</td><td>1,500.00</td><td>7 (2 new)</td><td>5</td></tr> <tr> <td>Assistant chemist in forest products.....do.....</td><td>1,200.00</td><td>2</td><td>3</td></tr> <tr> <td>Industrial examiner in forest products.....do.....</td><td>3,500.00</td><td>1</td><td>..</td></tr> <tr> <td>Industrial examiner in forest products.....do.....</td><td>2,000.00</td><td>4</td><td>4</td></tr> <tr> <td>Industrial examiner.....do.....</td><td>2,000.00</td><td>1</td><td>..</td></tr> <tr> <td>Examiner in forest products.....do.....</td><td>1,500.00</td><td>1</td><td>1</td></tr> <tr> <td>Architectural assistant in forest products.....do.....</td><td>1,800.00</td><td>1</td><td>..</td></tr> <tr> <td>Architectural assistant in forest products.....do.....</td><td>1,500.00</td><td>1</td><td>2</td></tr> <tr> <td>Physicist and expert in kiln drying.....do.....</td><td>3,000.00</td><td>1</td><td>1</td></tr> <tr> <td>Statistician in forest products.....do.....</td><td>2,700.00</td><td>1</td><td>..</td></tr> <tr> <td>Statistician in forest products.....do.....</td><td>2,500.00</td><td>..</td><td>1</td></tr> <tr> <td>Statistician in forest 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<td>Examiners.....do.....</td><td>1,800.00</td><td>2</td><td>..</td></tr> <tr> <td>Examiners.....do.....</td><td>1,600.00</td><td>1</td><td>2 (1 temp.)</td></tr> <tr> <td>Examiners.....do.....</td><td>1,500.00</td><td>..</td><td>2</td></tr> <tr> <td>Scientific assistants.....do.....</td><td>1,800.00</td><td>1</td><td>..</td></tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:		Number.	Number.	Director.....per annum.....	\$3,600.00	1	..	Director.....do.....	3,000.00	..	1	Assistant director.....do.....	3,200.00	1	..	Assistant director.....do.....	2,900.00	..	1	Consulting engineer.....do.....	3,500.00	1	1	Specialist in kiln-drying.....do.....	1,800.00	1	..	Engineer.....do.....	3,200.00	1	..	Engineers.....do.....	3,000.00	2	1	Engineer.....do.....	2,800.00	..	1	Engineers.....do.....	2,700.00	3	1	Engineer.....do.....	2,600.00	1	..	Engineers.....do.....	2,500.00	2	2	Engineers.....do.....	2,400.00	5	5	Engineers.....do.....	2,300.00	2	1	Engineers.....do.....	2,200.00	5	3	Engineer.....do.....	2,100.00	..	1	Engineer.....do.....	2,020.00	1	..	Engineer.....do.....	2,000.00	1	..	Engineer.....do.....	1,900.00	..	1	Engineers.....do.....	1,800.00	3	4	Assistant engineers.....do.....	1,800.00	4	2	Assistant engineers.....do.....	1,700.00	4	2	Assistant engineers.....do.....	1,600.00	2	3 (1 temp.)	Assistant engineers.....do.....	1,500.00	6	7	Assistant engineer.....do.....	1,400.00	..	1	Assistant engineers.....do.....	1,300.00	4	5	Assistant engineers.....do.....	1,200.00	6	6	Laboratory aid and engineer.....do.....	1,200.00	1	1	Wood technologist.....do.....	2,000.00	2	1	Box inspector.....do.....	2,000.00	1	1	Chemist in forest products.....do.....	3,000.00	1	..	Chemists in forest products.....do.....	2,600.00	3	..	Chemist in forest products.....do.....	2,500.00	1	..	Chemist in forest products.....do.....	2,400.00	..	3	Chemist in forest products.....do.....	2,200.00	..	1	Chemist in forest products.....do.....	2,100.00	..	1	Chemists in forest products.....do.....	1,800.00	2	1	Chemist in forest products.....do.....	1,700.00	..	1	Assistant chemist in forest products.....do.....	1,800.00	1	1	Assistant chemist in forest products.....do.....	1,600.00	1	..	Assistant chemist in forest products.....do.....	1,500.00	7 (2 new)	5	Assistant chemist in forest products.....do.....	1,200.00	2	3	Industrial examiner in forest products.....do.....	3,500.00	1	..	Industrial examiner in forest products.....do.....	2,000.00	4	4	Industrial examiner.....do.....	2,000.00	1	..	Examiner in forest products.....do.....	1,500.00	1	1	Architectural assistant in forest products.....do.....	1,800.00	1	..	Architectural assistant in forest products.....do.....	1,500.00	1	2	Physicist and expert in kiln drying.....do.....	3,000.00	1	1	Statistician in forest products.....do.....	2,700.00	1	..	Statistician in forest products.....do.....	2,500.00	..	1	Statistician in forest products.....do.....	1,800.00	1	1	Statistician in forest products.....do.....	1,600.00	1	1	Microscopist.....do.....	1,900.00	1	1	Specialist in wood structure.....do.....	1,800.00	1	..	Specialist in wood structure.....do.....	1,700.00	..	1	Assistant Xylotamist.....do.....	1,000.00	1	1	Practical paper maker.....do.....	1,100.00	1	1	Practical paper maker.....do.....	1,000.00	1	1	Assistant in lumbering.....do.....	2,700.00	1	..	Examiners.....do.....	2,400.00	1	1	Examiners.....do.....	2,000.00	1	1	Examiners.....do.....	1,800.00	2	..	Examiners.....do.....	1,600.00	1	2 (1 temp.)	Examiners.....do.....	1,500.00	..	2	Scientific assistants.....do.....	1,800.00	1	..		
Employees.	Rate.	Estimated, 1920.	Expended, 1918.																																																																																																																																																																																																																																																																															
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Specialist in kiln-drying.....do.....	1,800.00	1	..																																																																																																																																																																																																																																																																															
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Laboratory aid and engineer.....do.....	1,200.00	1	1																																																																																																																																																																																																																																																																															
Wood technologist.....do.....	2,000.00	2	1																																																																																																																																																																																																																																																																															
Box inspector.....do.....	2,000.00	1	1																																																																																																																																																																																																																																																																															
Chemist in forest products.....do.....	3,000.00	1	..																																																																																																																																																																																																																																																																															
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Industrial examiner in forest products.....do.....	3,500.00	1	..																																																																																																																																																																																																																																																																															
Industrial examiner in forest products.....do.....	2,000.00	4	4																																																																																																																																																																																																																																																																															
Industrial examiner.....do.....	2,000.00	1	..																																																																																																																																																																																																																																																																															
Examiner in forest products.....do.....	1,500.00	1	1																																																																																																																																																																																																																																																																															
Architectural assistant in forest products.....do.....	1,800.00	1	..																																																																																																																																																																																																																																																																															
Architectural assistant in forest products.....do.....	1,500.00	1	2																																																																																																																																																																																																																																																																															
Physicist and expert in kiln drying.....do.....	3,000.00	1	1																																																																																																																																																																																																																																																																															
Statistician in forest products.....do.....	2,700.00	1	..																																																																																																																																																																																																																																																																															
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Statistician in forest products.....do.....	1,600.00	1	1																																																																																																																																																																																																																																																																															
Microscopist.....do.....	1,900.00	1	1																																																																																																																																																																																																																																																																															
Specialist in wood structure.....do.....	1,800.00	1	..																																																																																																																																																																																																																																																																															
Specialist in wood structure.....do.....	1,700.00	..	1																																																																																																																																																																																																																																																																															
Assistant Xylotamist.....do.....	1,000.00	1	1																																																																																																																																																																																																																																																																															
Practical paper maker.....do.....	1,100.00	1	1																																																																																																																																																																																																																																																																															
Practical paper maker.....do.....	1,000.00	1	1																																																																																																																																																																																																																																																																															
Assistant in lumbering.....do.....	2,700.00	1	..																																																																																																																																																																																																																																																																															
Examiners.....do.....	2,400.00	1	1																																																																																																																																																																																																																																																																															
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Scientific assistants.....do.....	1,800.00	1	..																																																																																																																																																																																																																																																																															



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Forest Service—Continued.**Forest products—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries—Continued.			
Scientific assistant.....per annum..	\$1,700.00	Number.	Number.
do.....	1,600.00	1	1
Draftsman.....do.....	1,100.00	1 (new)	..
Clerk.....do.....	2,600.00	1	1
Clerk.....do.....	1,200.00	1	1
Clerk.....do.....	1,100.00	1	1
Clerk *.....do.....	1,020.00	..	1
Clerk *.....do.....	600.00	..	1
Messenger or laborer *.....do.....	720.00	..	1
Clerks, draftsmen, watchmen, laboratory aids, assistants, collaborators, messengers, \$900 to \$12.....do.....		73(69 temp.)	41(37 temp.)
Wages:			
Foreman.....do.....	1,500.00	1	1
Master mechanic.....do.....	1,500.00	1	1
Carpenters.....do.....	1,000.00	16	10
Cabinetmaker.....do.....	1,000.00	9	2
Miscellaneous temporary laborers, \$150 per month to \$0.30.....per hour.....		60	34
		270	191
Salaries.....		\$114,380.00	\$106,897.00
Wages.....		37,610.00	20,106.00
Other objects of expenditure:			
Traveling expenses.....		24,200.00	25,460.00
Equipment and material.....		19,790.00	12,492.00
Miscellaneous items.....		12,280.00	12,920.00
Total.....		208,260.00	177,875.00

\* Transferred to statutory roll in agricultural act for 1919.

- (357) For experiments and investigations of range conditions within national forests or elsewhere on the public range, and of methods for improving the range by reseeding, regulation of grazing, and other means (*acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; Oct. 1, 1918, vol. 40, pp. 985-990, sec. 1*)----- \$35,000.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Grazing inspector.....per annum..	\$3,200.00	Number.	Number.
do.....	2,800.00	..	1
Plant ecologist.....do.....	2,500.00	1	1
Plant ecologist.....do.....	1,800.00	1	..
Plant ecologist.....do.....	1,700.00	..	1
Examiner.....do.....	2,000.00	1	..
Examiner.....do.....	1,860.00	2	2
Examiner.....do.....	1,700.00	..	1
Examiner.....do.....	1,600.00	1	1
Assistants.....do.....	1,200.00	..	2 (temp.)
Assistants.....do.....	1,100.00	1	1
Forest plant mounter, \$900 and \$600 do.....		1	1
Wages:			
Temporary assistants and laborers, \$3.50 to \$1.....per diem		10	3
		19	14
Salaries.....		\$16,700.00	\$18,000.00
Wages.....		6,820.00	2,280.00
Other objects of expenditure:			
Traveling expenses.....		8,130.00	9,515.00
Equipment and material.....		1,500.00	1,670.00
Miscellaneous items.....		1,850.00	3,330.00
Total.....		35,000.00	34,795.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																												
<i>General Expenses, Forest Service—Continued.</i>																																																																																																																														
(358) For the purchase of tree seed, cones, and nursery stock, for seeding and tree planting within national forests, and for experiments and investigations necessary for such seeding and tree planting, \$145,640: <i>Provided, That of this sum the Secretary of Agriculture is authorized to use so much as may be necessary, but not to exceed \$200, to acquire by purchase land now used as a forest nursery site for the Michigan National Forest (acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; Oct. 1, 1918, vol. 40, pp. 985-990, sec. 1) -----</i> \$145,640.00																																																																																																																														
NOTE.—A proviso has been added to authorize the purchase of land now used as a forest nursery site. There is no Government land properly located and suitable for forest-nursery purposes on the Michigan National Forest. In the spring of 1916 a tract of land consisting of approximately 2.4 acres was leased for nursery use in East Tawas, Mich., which town is the headquarters of the forest supervisor in charge of the Michigan National Forest. The lease was for a period of one year, with provision for a renewal for another year. On June 30, 1918, when the two-year period elapsed, the owner refused to renew the lease but was willing to sell the land at a reasonable price. As the land was still occupied as a nursery and contained a considerable quantity of growing stock, the forest supervisor purchased it from the owner for \$175. The land has proved to be entirely suitable for forest nursery purposes, and as it is planned to use this nursery year after year and as the price (\$175) is considered very reasonable, it is recommended that provision be included in the appropriation bill for 1920 for acquiring this land from the present owner. The additional \$25 will be barely sufficient to cover the cost of survey, taxes, preparation of deed, etc.																																																																																																																														
<table border="1"> <thead> <tr> <th>Employees.</th> <th>Rate.</th> <th>Estimated, 1920.</th> <th>Expended, 1918.</th> </tr> </thead> <tbody> <tr> <td>Salaries:</td> <td></td> <td>Number.</td> <td>Number.</td> </tr> <tr> <td>Examiner.....per annum.....</td> <td>\$2,340.00</td> <td>1</td> <td>..</td> </tr> <tr> <td>Examiner.....do.....</td> <td>2,200.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Examiner.....do.....</td> <td>2,040.00</td> <td>1</td> <td>..</td> </tr> <tr> <td>Examiners.....do.....</td> <td>2,000.00</td> <td>2 (1 pt. time)</td> <td>2</td> </tr> <tr> <td>Examiner.....do.....</td> <td>1,900.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Examiners.....do.....</td> <td>1,800.00</td> <td>2 (1 pt. time)</td> <td>2</td> </tr> <tr> <td>Examiner.....do.....</td> <td>1,700.00</td> <td>1</td> <td>..</td> </tr> <tr> <td>Examiner.....do.....</td> <td>1,600.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Examiner.....do.....</td> <td>1,500.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Examiner.....do.....</td> <td>1,400.00</td> <td>1 (pt. time)</td> <td>1 (temp.)</td> </tr> <tr> <td>Examiner.....do.....</td> <td>1,300.00</td> <td>1</td> <td>2 (1 pt. time)</td> </tr> <tr> <td>Assistants.....do.....</td> <td>1,500.00</td> <td>2</td> <td>2</td> </tr> <tr> <td>Assistant.....do.....</td> <td>1,440.00</td> <td>1</td> <td>..</td> </tr> <tr> <td>Assistant.....do.....</td> <td>1,350.00</td> <td>1</td> <td>..</td> </tr> <tr> <td>Assistant.....do.....</td> <td>1,300.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Assistant.....do.....</td> <td>1,200.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Assistant.....do.....</td> <td>1,100.00</td> <td>1</td> <td>2 (1 temp.)</td> </tr> <tr> <td>Ranger.....do.....</td> <td>1,200.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Ranger.....do.....</td> <td>1,100.00</td> <td>1</td> <td>..</td> </tr> <tr> <td>Wages:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Forest guards and laborers, \$900 per annum to \$0.25.....per hour.....</td> <td>1,200</td> <td>598</td> <td></td> </tr> <tr> <td></td> <td>1,217</td> <td>616</td> <td></td> </tr> <tr> <td>Salaries.....</td> <td>\$25,900.00</td> <td>\$26,500.00</td> <td></td> </tr> <tr> <td>Wages.....</td> <td>81,741.00</td> <td>60,659.00</td> <td></td> </tr> <tr> <td>Other objects of expenditure:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Traveling expenses.....</td> <td>7,570.00</td> <td>5,892.00</td> <td></td> </tr> <tr> <td>Equipment and material.....</td> <td>15,417.00</td> <td>21,935.00</td> <td></td> </tr> <tr> <td>Miscellaneous items.....</td> <td>15,012.00</td> <td>50,420.00</td> <td></td> </tr> <tr> <td>Total.....</td> <td>145,640.00</td> <td>165,406.00</td> <td></td> </tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:		Number.	Number.	Examiner.....per annum.....	\$2,340.00	1	..	Examiner.....do.....	2,200.00	..	1	Examiner.....do.....	2,040.00	1	..	Examiners.....do.....	2,000.00	2 (1 pt. time)	2	Examiner.....do.....	1,900.00	..	1	Examiners.....do.....	1,800.00	2 (1 pt. time)	2	Examiner.....do.....	1,700.00	1	..	Examiner.....do.....	1,600.00	1	1	Examiner.....do.....	1,500.00	..	1	Examiner.....do.....	1,400.00	1 (pt. time)	1 (temp.)	Examiner.....do.....	1,300.00	1	2 (1 pt. time)	Assistants.....do.....	1,500.00	2	2	Assistant.....do.....	1,440.00	1	..	Assistant.....do.....	1,350.00	1	..	Assistant.....do.....	1,300.00	..	1	Assistant.....do.....	1,200.00	..	1	Assistant.....do.....	1,100.00	1	2 (1 temp.)	Ranger.....do.....	1,200.00	1	1	Ranger.....do.....	1,100.00	1	..	Wages:				Forest guards and laborers, \$900 per annum to \$0.25.....per hour.....	1,200	598			1,217	616		Salaries.....	\$25,900.00	\$26,500.00		Wages.....	81,741.00	60,659.00		Other objects of expenditure:				Traveling expenses.....	7,570.00	5,892.00		Equipment and material.....	15,417.00	21,935.00		Miscellaneous items.....	15,012.00	50,420.00		Total.....	145,640.00	165,406.00			
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Forest Service—Continued.*

- (359) For silvicultural, dendrological, and other experiments and investigations independently or in cooperation with other branches of the Federal Government, with States and with individuals, to determine the best methods for the conservative management of forests and forest lands [§78,728] (acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; Oct. 1, 1918, vol. 40, pp. 985-990, sec. 1) ----- \$103,728.00

NOTE.—There is an increase in the above item of \$25,000. The Forest Service is studying certain phases of the lumber industry, with special reference to supply, production, and distribution of lumber and other economic facts and conditions essential to the Government in securing materials. The work will follow logically that already done by the Forest Service in cooperation with the Federal Trade Commission. The rapidly growing demands upon the Forest Service for information can be met only through an increase in appropriations beyond the funds now provided.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Assistant forester.....per annum..	\$3,000.00	1	1
Chief, forest investigations.....do.....	3,500.00	1	1
Chief, forest investigations.....do.....	3,200.00	--	1
Chief, state cooperation.....do.....	2,800.00	1 (pt. time)	1 (pt. time)
Engineer.....do.....	3,000.00	1	1
Engineer.....do.....	2,200.00	1	1
Examiner.....do.....	3,000.00	1	1
Examiners.....do.....	2,600.00	2(1 pt. time)	1
Examiners.....do.....	2,500.00	2(1 pt. time)	2 (1 pt. time)
Examiners.....do.....	2,400.00	2	4
Examiners.....do.....	2,340.00	2	\
Examiners.....do.....	2,200.00	--	2
Examiners.....do.....	1,980.00	2	--
Examiners.....do.....	1,900.00	2	2
Examiners.....do.....	1,800.00	--	1
Examiners.....do.....	1,600.00	--	3
Assistants.....do.....	1,100.00	7 (temp.)	3 (temp.)
Wages:			
Temporary laborers, \$115 per month to \$2.....per diem.....	50	35	
	75	58	
Salaries.....	\$46,440.00	\$44,600.00	
Wages.....	24,800.00	10,830.00	
Other objects of expenditure:			
Traveling expenses.....	19,455.00	12,250.00	
Equipment and material.....	3,445.00	2,445.00	
Miscellaneous items.....	9,495.00	8,295.00	
Total.....	103,728.00	78,420.00	

- (360) For estimating and appraising timber and other resources on the national forests preliminary to disposal by sale or to the issue of occupancy permits, and for emergency expenses incident to their sale or use [§100,000] (same acts) ----- 80,000.00

NOTE.—There is a decrease in the above item of \$20,000. It is believed that \$80,000 will be adequate under present labor conditions to provide for such timber-cruising parties as can be assembled for valuation of national-forest timber resources and also for the appraisal of grazing and other resources of the forests, especially as, due to the loss of several of the most efficient grazing examiners of the Forest Service, it may not be possible to carry out in full the plans originally contemplated for this work during the fiscal year 1920. When normal conditions are restored, however, it will be desirable to continue the work on the present basis if the requisite personnel can be secured.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Forest examiners.....per annum.....	\$1,740.00	2	
Forest examiners.....do.....	1,600.00	1	3
Forest examiners.....do.....	1,500.00	3 (temp.)	3 (2 temp.)
Forest examiners.....do.....	1,440.00	2	
Forest examiners.....do.....	1,300.00		2
Forest assistant.....do.....	1,200.00	3 (temp.)	3 (1 temp.)
Transitmen, compassmen, rodmen, field assistants, \$1,080 to \$600.....do.....		30	26
Wages:			
Miscellaneous temporary labor, \$1,200 per annum to \$1.75.....per diem.....	100	82	
		141	119
Salaries.....		\$30,360.00	\$24,786.00
Wages.....		20,740.00	19,892.00
Other objects of expenditure:			
Traveling expenses.....		15,900.00	12,680.00
Equipment and material.....		5,000.00	6,817.00
Miscellaneous items.....		8,000.00	5,147.00
Total.....		80,000.00	69,322.00

- (361) For other miscellaneous forest investigations, and for collating, digesting, recording, illustrating, and distributing the results of the experiments and investigations herein provided for (*acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; Oct. 1, 1918, vol. 40, pp. 985-990, sec. 1*)----- \$31,280.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Editor.....per annum.....	\$3,200.00	1	1
Assistant editor.....do.....	2,000.00	1	
Chief of publication.....do.....	2,600.00		1
Chief of publication.....do.....	2,500.00	1	
Chief of publication.....do.....	2,200.00		1
Chief of geography.....do.....	2,200.00	1	1
Statistician.....do.....	1,800.00	1	1
Examiner.....do.....	2,200.00	1	1
Engineer.....do.....	2,000.00	1	1
Assistant in forest education.....do.....	1,600.00	1	
Clerk.....do.....	1,600.00		1
Clerk*.....do.....	900.00		1
Lithographic map engraver.....do.....	1,800.00	1	1
Photographer.....do.....	1,400.00	1	1
Map mounter.....do.....	1,200.00	1	
Messenger or laborer*.....do.....	960.00		1
Lithographer's helper.....do.....	780.00		1
		11	13
Salaries.....		\$21,900.00	\$23,860.00
Other objects of expenditure:			
Traveling expenses.....		1,400.00	1,440.00
Equipment and material.....		7,140.00	6,290.00
Miscellaneous items.....		840.00	1,020.00
Total.....		31,280.00	32,610.00

\* Transferred to statutory roll in Agricultural act for 1919.

- (362) For the construction and maintenance of roads, trails, bridges, fire lanes, telephone lines, cabins, fences, and other improvements necessary for the proper and economical administration, protection, and development of the national forests, \$450,000: *Provided*, That not to exceed \$50,000 may be expended for the construction and maintenance of boundary and range division fences, counting corrals, stock



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Forest Service—Continued.*

driveways and bridges, the development of stock watering places, and the eradication of poisonous plants on the national forests: *And provided further*, That no part of the money herein appropriated shall be used to pay the transportation or traveling expenses of any forest officer or agent except he be traveling on business directly connected with the Forest Service and in furtherance of the works, aims, and objects specified and authorized in and by this appropriation: *And provided also*, That no part of this appropriation shall be paid or used for the purpose of paying for, in whole or in part, the preparation or publication of any newspaper or magazine article, but this shall not prevent the giving out to all persons without discrimination, including newspaper and magazine writers and publishers, of any facts or official information of value to the public (*acts Mar. 3, 1899, vol. 30, p. 1099, sec. 1; June 3, 1902, vol. 32, p. 295, sec. 1; Feb. 1, 1905, vol. 33, p. 268, sec. 1; June 11, 1906, vol. 34, p. 233, sec. 1; Mar. 1, 1911, vol. 36, p. 963, sec. 1; Mar. 4, 1913, vol. 37, p. 842, sec. 1; Mar. 4, 1915, vol. 38, p. 1099, sec. 1; Oct. 1, 1918, vol. 40, pp. 985-990, sec. 1*) ----- \$450, 000. 00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Engineer.....per annum.....	\$2,400.00	1	1
Engineer.....do.....	2,200.00	---	---
Engineers.....do.....	1,920.00	2	2
Engineer.....do.....	1,800.00	---	2
Engineer.....do.....	1,680.00	1	---
Engineer.....do.....	1,600.00	---	1
Examiner.....do.....	2,000.00	1	1
Wages:			
Forest guards, linemen, foremen, carpenters, mechanics, electricians, and laborers, \$1,100 per annum to \$2.....per diem.....		340	264
		345	269
Salaries.....	\$9,920.00	\$9,400.00	
Wages.....	211,259.00	189,126.00	
Other objects of expenditure:			
Traveling expenses.....	15,040.00	11,506.00	
Equipment and material.....	160,700.00	144,930.00	
Miscellaneous items.....	53,081.00	94,767.00	
Total.....	450,000.00	449,729.00	

## CONSTRUCTION WORK CONTEMPLATED.

Based on the records and present market conditions of labor and material so far as practicable, the average unit costs of construction work on the National Forests for 1920 are estimated as follows:

Roads, per mile.....	\$932.00	Roads, 56 miles *.....	\$51,762.00
Trails, per mile.....	96.00	Trails, 696 miles *.....	62,220.00
Telephone lines, per mile.....	79.00	Telephone lines, 1044 miles *.....	78,520.00
Fire breaks, per mile.....	130.00	Fire breaks, 33 miles.....	3,910.00
Fences, per mile.....	180.00	Fences, 367 miles.....	52,217.00
Lookout structures, each.....	278.00	Lookout structures, 54 *.....	12,200.00
Dwellings, each †.....	1,400.00	Dwellings, 96.....	48,312.00
Barns, each.....	260.00	Barns and other buildings, 376.....	57,860.00
Other buildings, each.....	81.00	Corrals, 10.....	817.00
Corrals, each.....	88.00	Bridges, 19.....	11,700.00
Bridges, each.....	720.00	Water improvements, 238.....	30,400.00
Water improvements, each.....	131.00	Other miscellaneous improvements.....	39,082.00

## CONSTRUCTION WORK DONE.

This appropriation was expended for construction and maintenance work on National Forests, approximately as follows:

\* Part of cost of construction paid from cooperative and other funds.  
† No dwelling construction contemplated during 1920, except necessary replacements.

In all, for general expenses.....\$3,541, 209. 00 \$3, 247, 935. 00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		
Appropriations for 1910..... <sup>1</sup> 4,586,000	Estimates for 1911..... <sup>2</sup> 4,983,500	
Sundry civil act..... 30,000	Estimates for 1912..... 3,189,420	
Appropriations for 1911..... 1 4,947,900	Estimates for 1913..... 3,208,005	
Deficiency act..... 900,000	Estimates for 1914..... 3,198,939	
Appropriations for 1912..... 1 3,214,420	Estimates for 1915..... 3,238,096	
Appropriations for 1913..... 3,107,285	Estimates for 1916..... 3,212,676	
Appropriations for 1914..... 3,160,119	Estimates for 1917..... 3,188,616	
Appropriations for 1915..... 3,243,096	Estimates for 1918..... 3,340,775	
Deficiency act..... 349,243	Estimates for 1919..... 3,247,935	
Appropriations for 1916..... 3,217,676	Estimates for 1920..... 3,541,209	
Deficiency act..... 57,300		
Appropriations for 1917..... 3,188,415		
Appropriations for 1918..... 3,374,475		
Deficiency act..... 775,000		
Appropriations for 1919..... 3,248,985		

<sup>1</sup> Includes amount appropriated separately for "Improvement of the National Forests."<sup>2</sup> Includes amount estimated separately for "Improvement of the National Forests."

- (363) [That hereafter during the existing state of war, the Secretary of Agriculture is authorized, under regulations to be prescribed by him, to permit the War Department, or any other Department, Board, or Commission, of the Government, to take from the national forests such timber as may be needed in the prosecution of the war, and the Secretaries of the Departments, Boards, or the Commissions which may obtain such timber, are severally authorized to sell, or otherwise dispose of, any timber necessarily cut in carrying out the provisions of this paragraph and any materials manufactured therefrom which are not necessary for war purposes.]

NOTE.—The above paragraph is omitted as it is continuing legislation during the period of the war.

- (364) [Whenever, during the fiscal year ending June thirtieth, nineteen hundred and nineteen, the Secretary of Agriculture shall find that the expenses of travel can be reduced thereby, he may, in lieu of actual traveling expenses, under such regulations as he may prescribe, authorize the payment of not to exceed 2 cents per mile for a motorcycle or 6 cents per mile for an automobile, used for necessary travel on official business: *Provided*, That there shall be no payment of mileage for the use or travel of motorcycle or automobile furnished or owned by or maintained by the Government of the United States.]

NOTE.—The above item has been transferred to the "Miscellaneous" section.

- (365) To enable the Secretary of Agriculture more effectively to carry out the provisions of the act of March first, nineteen hundred and eleven (Thirty-sixth Statutes, page nine hundred and sixty-one), entitled "An act to enable any State to cooperate with any other State or States, or with the United States, for the protection of watersheds of navigable streams, and to appoint a commission for the acquisition of lands for the purpose of conserving the navigability of navigable rivers," \$21,770 of the moneys appropriated therein, or for carrying out its purposes, shall be available for the employment of agents, title attorneys, clerks, assistants, and other labor and for the purchase of supplies and equipment required for the purpose of said act in the city of Washington.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Forest Service—Continued.</i>		
<i>Statement of clerks employed in District of Columbia under lump-sum appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).</i>		
GENERAL EXPENSES—FOREST SERVICE.		
1 clerk, \$1,300 per annum. 1 clerk, \$1,020 per annum. 6 clerks, at \$1,000 each per annum. 1 clerk, \$960 per annum. 6 clerks, at \$900 each per annum.		
COOPERATIVE WORK—FOREST SERVICE.		
1 clerk, \$900 per annum.		
ACQUISITION OF LANDS—FOREST SERVICE.		
1 clerk, \$1,260 per annum. 1 clerk, \$1,056 per annum.		
Total for Forest Service-----	\$6,026,629.00	\$5,731,555.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<b>BUREAU OF CHEMISTRY.</b>		
<i>Salaries, Bureau of Chemistry—</i>		
(1) One chemist, who shall be chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Apr. 14, 1896, vol. 29, p. 100, sec. 1; Mar. 2, 1901, vol. 31, p. 930, sec. 1; Oct. 1, 1918, vol. 40, pp. 990-991, sec. 1</i> )-----	\$5,000.00	
(2) One chief clerk ( <i>same acts</i> )-----	2,500.00	
(3) One administrative assistant (by transfer from lump fund for food and drugs act) ( <i>same acts</i> )-----	2,500.00	
(4) Three executive clerks, at \$2,000 each ( <i>same acts</i> )-----	6,000.00	
(5) Ten clerks, class 4 ( <i>same acts</i> )-----	18,000.00	
(6) Thirteen clerks, class 3 (increase of 1 by transfer from lump fund for food and drugs act and decrease of 1 by transfer to statutory roll, Secretary's office, making no change in the number of places) ( <i>same acts</i> )-----	20,800.00	
(7) Two clerks, at \$1,440 each ( <i>same acts</i> )-----	2,880.00	
(8) Twenty clerks, class 2 (increase of 1 by transfer from statutory roll, Secretary's office) ( <i>same acts</i> )-----	28,000.00	
(9) One clerk ( <i>same acts</i> )-----	1,300.00	
(10) Seventy-five clerks, class 1 (increase of 9 by transfer from lump fund for food and drugs act) ( <i>same acts</i> )-----	90,000.00	
(11) One clerk ( <i>same acts</i> )-----	1,100.00	
(12) Thirteen clerks, at \$1,020 each ( <i>same acts</i> )-----	13,260.00	
(13) Fifteen clerks, at \$1,000 each ( <i>same acts</i> )-----	15,000.00	
(14) Two multigraph operators, at \$1,000 each (by transfer from lump fund for food and drugs act) ( <i>same acts</i> )-----	2,000.00	
(15) One clerk ( <i>same acts</i> )-----	960.00	
(16) Eleven clerks, at \$900 each (decrease of 1 by transfer to statutory roll, Secretary's office) ( <i>same acts</i> )-----	9,900.00	
(17) Two food and drug inspectors, at \$2,500 each ( <i>same acts</i> ) -----	5,000.00	
(18) Two food and drug inspectors, at \$2,250 each ( <i>same acts</i> ) -----	4,500.00	
(19) One food and drug inspector ( <i>same acts</i> )-----	2,120.00	
(20) Thirteen food and drug inspectors, at \$2,000 each ( <i>same acts</i> )-----	26,000.00	
(21) Thirteen food and drug inspectors, at \$1,800 each ( <i>same acts</i> )-----	23,400.00	
(22) One food and drug inspector ( <i>same acts</i> )-----	1,620.00	
(23) Eleven food and drug inspectors, at \$1,600 each ( <i>same acts</i> )-----	17,600.00	
(24) Ten food and drug inspectors, at \$1,400 each ( <i>same acts</i> )-----	14,000.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Chemistry—Continued.</i>		
(25) One assistant ( <i>R. S.</i> , p. 87, secs. 520-523; <i>acts Apr. 14, 1896, vol. 29, p. 100, sec. 1; Mar. 2, 1901, vol. 31, p. 930, sec. 1; Oct. 1, 1918, vol. 40, pp. 990-991, sec. 1</i> ) -----	\$1,600.00	
(26) Four laboratory helpers, at \$1,200 each ( <i>same acts</i> )-----	4,800.00	
(27) One laboratory helper ( <i>same acts</i> )-----	1,020.00	
(28) Four laboratory helpers, at \$1,000 each ( <i>same acts</i> )-----	4,000.00	
(29) Four laboratory helpers, at \$960 each ( <i>same acts</i> )-----	3,840.00	
(30) Three laboratory helpers, at \$900 each ( <i>same acts</i> )-----	2,700.00	
(31) Seven laboratory helpers, at \$840 each ( <i>same acts</i> )-----	5,880.00	
(32) Two laboratory helpers, at \$780 each ( <i>same acts</i> )-----	1,560.00	
(33) Twenty-four laboratory helpers, messenger boys, or laborers, at \$720 each ( <i>same acts</i> )-----	17,280.00	
(34) Two laboratory helpers, messenger boys, or laborers, at \$660 each ( <i>same acts</i> )-----	1,320.00	
(35) Thirty-four laboratory helpers, messenger boys, or laborers, at \$600 each ( <i>same acts</i> )-----	20,400.00	
(36) One laboratory assistant ( <i>same acts</i> )-----	1,200.00	
(37) One toolmaker ( <i>same acts</i> )-----	1,200.00	
(38) Three samplers, at \$1,200 each ( <i>same acts</i> )-----	3,600.00	
(39) One janitor ( <i>same acts</i> )-----	1,020.00	
(40) One mechanic ( <i>same acts</i> )-----	1,800.00	
(41) Two mechanics, at \$1,400 each ( <i>same acts</i> )-----	2,800.00	
(42) One mechanic ( <i>same acts</i> )-----	1,200.00	
(43) One mechanic ( <i>same acts</i> )-----	1,020.00	
(44) One mechanic (by transfer from lump fund for food and drugs act) ( <i>same acts</i> )-----	1,000.00	
(45) One mechanic ( <i>same acts</i> )-----	960.00	
(46) One mechanic ( <i>same acts</i> )-----	900.00	
(47) Two student assistants, at \$300 each ( <i>same acts</i> )-----	600.00	
(48) Two messengers, at \$840 each ( <i>same acts</i> )-----	1,680.00	
(49) One skilled laborer ( <i>same acts</i> )-----	1,050.00	
(50) One skilled laborer ( <i>same acts</i> )-----	840.00	
(51) Three messenger boys or laborers, at \$540 each ( <i>same acts</i> )-----	1,620.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Chemistry—Continued.</i>		
(52) Thirteen messenger boys or laborers, at \$480 each ( <i>R. S., p. 87, secs. 520-523; acts Apr. 14, 1896, vol. 29, p. 100, sec. 1; Mar. 2, 1901, vol. 31, p. 930, sec. 1; Oct. 1918, vol. 40, pp. 990-991, sec. 1</i> ) -----	\$6,240.00	
(53) Three messenger boys or laborers, at \$420 each ( <i>same acts</i> ) -----	1,260.00	
(54) Two messenger boys or laborers, at \$360 each ( <i>same acts</i> ) -----	720.00	
(55) Thirteen charwomen, at \$240 each (increase of 4 by transfer from lump fund for food and drugs act) ( <i>same acts</i> ) -----	3,120.00	
Appropriations for 1910..... \$75,560	Estimates for 1911..... \$79,360	
Appropriations for 1911..... 79,360	Estimates for 1912..... 242,190	
Appropriations for 1912..... 242,190	Estimates for 1913..... 262,940	
Appropriations for 1913..... 254,660	Estimates for 1914..... 274,860	
Appropriations for 1914..... 273,860	Estimates for 1915..... 281,500	
Appropriations for 1915..... 282,600	Estimates for 1916..... 291,540	
Appropriations for 1916..... 291,540	Estimates for 1917..... 315,590	
Appropriations for 1917..... 315,590	Estimates for 1918..... 362,130	
Appropriations for 1918..... 362,990	Estimates for 1919..... 393,910	
Appropriations for 1919..... 393,910	Estimates for 1920..... 411,670	
		\$411,670.00
		\$393,910.00
NOTE.—Apparent increase, \$17,760; actual decrease, \$1,100, as follows:		
<i>Transfers from lump fund for food and drugs act of this bureau, which fund has been correspondingly reduced.</i>		
1 administrative assistant.....	\$2,500	
1 clerk, class 3.....	1,600	
9 clerks, class 1.....	10,800	
2 multigraph operators, at \$1,000 each.....	2,000	
1 mechanic.....	1,000	
4 charwomen, at \$240 each.....	960	
	18,860	
<i>Transfers to statutory roll, Secretary's office.</i>		
1 clerk, class 3.....	\$1,600	
1 clerk.....	900	
	2,500	
<i>Transfer from statutory roll, Secretary's office.</i>		
1 clerk, class 2.....	1,400	
Actual decrease.....	1,100	
Apparent increase.....	17,760	
SUPPLEMENTAL ESTIMATE.		
<i>Promotions:</i>		
(56) 1 executive clerk, \$2,000 to \$2,280 -----	\$280	
(This employee has charge of the bureau accounting and auditing work. He is a man of good business training and judgment, and the bureau officials depend upon him for the execution of much work of an administrative character in connection with fiscal matters. He has had opportunities for employment outside the department at a much greater compensation than he now receives, but he has declined these offers. He has been in the service 14 years and has had no promotion since Aug. 10, 1912.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Chemistry—Continued.</i>		
<i>Promotions—Continued.</i>		
(57) 1 laboratory helper, \$1,200, to 1 laboratory assistant, \$1,400 . . . . .	\$200	
(This employee has charge of the bureau store room. As a result of 23 years' service in the department he has acquired a thorough knowledge of the requirements in reference to the handling, storing, and shipping of chemicals, chemical apparatus, and laboratory equipment. This is highly specialized knowledge, and it is extremely difficult to secure men having these qualifications. He has had no promotion since Aug. 10, 1912. The change in title from "laboratory helper" to "laboratory assistant" is recommended in order more clearly to indicate the character of work performed.)		
(58) 1 clerk, \$960 to \$1,000 . . . . .	40	
(The above promotion and those which follow, affecting clerical and subclerical employees, are recommended in order that the salaries of the respective positions may conform to the minimum salary recommended for such positions, as set forth in the general note regarding minimum salaries. Changes in title are recommended in order that the titles of the positions may clearly indicate the character of work performed and permit a little more latitude in filling the positions should vacancies occur.)		
(59) 11 clerks, \$900 to \$1,000 each . . . . .	1, 100	
(See preceding note.)		
(60) 9 laboratory helpers, messenger boys, or laborers, at \$720 each, to 9 messengers or laborers, at \$900 each . . . . .	1, 620	
(See preceding note.)		
(61) 2 laboratory helpers, messenger boys, or laborers, at \$600 each, to 2 messengers or laborers, at \$900 each . . . . .	600	
(See preceding note.)		
(62) 2 messengers, at \$840 each, to 2 messengers or laborers, at \$900 each . . . . .	120	
(See preceding note.)		
(63) 1 skilled laborer, \$840 to \$1,000 . . . . .	160	
(See preceding note.)		
<i>New places:</i>		
(64) 15 laboratory helpers, at \$900 each . . . . .	13, 500	
(These places are recommended in lieu of 7 laboratory helpers at \$840 each, 2 at \$780 each, 4 at \$720 each, and 2 at \$600 each, dropped, as below, in order to provide a minimum entrance salary for laboratory helpers of \$900, as set forth in the general note regarding minimum salaries.)		
(65) 4 mechanics, at \$1,200 each . . . . .	4, 800	
(These places are recommended in lieu of 1 mechanic, \$1020, 1 at \$1,000, 1 at \$960, and 1 at \$900, dropped, as below, and will provide a minimum entrance salary of \$1,200 for mechanics, as set forth in the general note regarding minimum salaries.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Chemistry—Continued.</i>		
<i>New places—Continued.</i>		
(66) 38 messengers or laborers, at \$900 each .....	\$34, 200	
(These places are recommended in lieu of 14 laboratory helpers, messenger boys, or laborers, at \$720 each, 22 laboratory helpers, messenger boys, or laborers, at \$600 each, 3 messenger boys or laborers, at \$480 each, 3 at \$420 each, and 2 at \$360 each, dropped, as below. This class of employees is urgently needed, but it has been impossible to secure the services of men of mature years at less than \$900 per annum, as they can command a higher salary outside the Government service. The salary indicated is the minimum for messengers and laborers, as set forth in the general note regarding minimum salaries.)		
	-----	\$56, 620
<i>Places dropped:</i>		
(67) 7 laboratory helpers, at \$840 each .....	5, 880	
(See note under item 64.)		
(68) 2 laboratory helpers, at \$780 each .....	1, 560	
(See note under item 64.)		
(69) 14 laboratory helpers, messenger boys, or laborers, at \$720 each .....	10, 080	
(See notes under item 66.)		
(70) 22 laboratory helpers, messenger boys, or laborers, at \$600 each .....	13, 200	
(See note under item 66.)		
(71) 1 mechanic .....	1, 020	
(See note under item 65.)		
(72) 1 mechanic .....	1, 000	
(See note under item 65.)		
(73) 1 mechanic .....	960	
(See note under item 65.)		
(74) 1 mechanic .....	900	
(See note under item 65.)		
(75) 3 messenger boys or laborers, at \$480 each .....	1, 440	
(See note under item 66.)		
(76) 3 messenger boys or laborers, at \$420 each .....	1, 260	
(See note under item 66.)		
(77) 2 messenger boys or laborers, at \$360 each .....	720	38, 020
(See note under item 66.)		
Net increase .....	18, 600	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																								
<i>Salaries, Bureau of Chemistry—Continued.</i>																																																																																										
<i>Changes in title:</i>																																																																																										
(78) 1 laboratory helper, messenger boy, or laborer, \$720, to 1 messenger boy, \$720.  (This change and those which follow are recommended in order that the titles of the positions may clearly indicate the character of work performed.)																																																																																										
(79) 2 laboratory helpers, messenger boys, or laborers, at \$660 each, to 2 messenger boys, at \$660 each.  (See preceding note.)																																																																																										
(80) 10 laboratory helpers, messenger boys, or laborers, at \$600 each, to 10 messenger boys, at \$600 each.  (See preceding note.)																																																																																										
(81) 3 messenger boys or laborers, at \$540 each, to 3 messenger boys, at \$540 each.  (See preceding note.)																																																																																										
(82) 10 messenger boys, or laborers, at \$480 each, to 10 messenger boys or charwomen, at \$480 each.  (See preceding note.)																																																																																										
<i>General Expenses, Bureau of Chemistry—</i>																																																																																										
(83) For all necessary expenses, for chemical apparatus, chemicals and supplies, repairs to apparatus, gas, electric current, official traveling expenses, telegraph and telephone service, express and freight charges, for the employment of such assistants, clerks, and other persons as the Secretary of Agriculture may consider necessary for the purposes named, in the city of Washington and elsewhere, in conducting investigations; collecting, reporting, and illustrating the results of such investigations; and for rent outside of the District of Columbia, for carrying out the investigations and work herein authorized, as follows ( <i>acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768–770, sec. 1; Oct. 1, 1918, vol. 40, pp. 991–992, sec. 1</i> ):																																																																																										
(84) For conducting the investigations contemplated by the act of May fifteenth, eighteen hundred and sixty-two, relating to the application of chemistry to agriculture ( <i>same acts</i> )... \$42,400.00	\$42,400.00																																																																																									
<table border="1"> <thead> <tr> <th>Employees.</th> <th>Rate.</th> <th>Estimated, 1920.</th> <th>Expended, 1918.</th> </tr> </thead> <tbody> <tr> <td>Salaries:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Chemists in charge.....per annum..</td> <td>\$3,500.00</td> <td>1 (parttime)</td> <td>1 (part time)</td> </tr> <tr> <td>Chemists in charge.....do....</td> <td>3,000.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Chemists in charge.....do....</td> <td>2,760.00</td> <td>1 (parttime)</td> <td></td> </tr> <tr> <td>Chemist in charge.....do....</td> <td>2,520.00</td> <td>..</td> <td>1 (part time)</td> </tr> <tr> <td>Special investigator.....do....</td> <td>2,520.00</td> <td>..</td> <td>1 (temp.)</td> </tr> <tr> <td>Chemist.....do....</td> <td>2,520.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Chemists.....do....</td> <td>2,040.00</td> <td>3</td> <td>3</td> </tr> <tr> <td>Chemists.....do....</td> <td>1,800.00</td> <td>2</td> <td>1</td> </tr> <tr> <td>Chemists.....do....</td> <td>1,620.00</td> <td>3</td> <td>4</td> </tr> <tr> <td>Chemists.....do....</td> <td>1,440.00</td> <td>6</td> <td>6</td> </tr> <tr> <td>Chemist.....do....</td> <td>1,260.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Chemists.....do....</td> <td>1,200.00</td> <td>6</td> <td>6</td> </tr> <tr> <td>Chemists' aid, assistants, and collaborators, \$720 per an- num to \$2.....per diem.....</td> <td>..</td> <td>4</td> <td></td> </tr> <tr> <td></td> <td>25</td> <td>30</td> <td></td> </tr> <tr> <td>Salaries.....</td> <td>\$27,000.00</td> <td>\$27,963.83</td> <td></td> </tr> <tr> <td>Other objects of expenditure:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Traveling expenses.....</td> <td>5,000.00</td> <td>4,348.27</td> <td></td> </tr> <tr> <td>Equipment and material.....</td> <td>8,500.00</td> <td>7,952.12</td> <td></td> </tr> <tr> <td>Miscellaneous items.....</td> <td>1,900.00</td> <td>1,944.58</td> <td></td> </tr> <tr> <td>Total.....</td> <td>42,400.00</td> <td>42,208.80</td> <td></td> </tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:				Chemists in charge.....per annum..	\$3,500.00	1 (parttime)	1 (part time)	Chemists in charge.....do....	3,000.00	1	1	Chemists in charge.....do....	2,760.00	1 (parttime)		Chemist in charge.....do....	2,520.00	..	1 (part time)	Special investigator.....do....	2,520.00	..	1 (temp.)	Chemist.....do....	2,520.00	1	1	Chemists.....do....	2,040.00	3	3	Chemists.....do....	1,800.00	2	1	Chemists.....do....	1,620.00	3	4	Chemists.....do....	1,440.00	6	6	Chemist.....do....	1,260.00	1	1	Chemists.....do....	1,200.00	6	6	Chemists' aid, assistants, and collaborators, \$720 per an- num to \$2.....per diem.....	..	4			25	30		Salaries.....	\$27,000.00	\$27,963.83		Other objects of expenditure:				Traveling expenses.....	5,000.00	4,348.27		Equipment and material.....	8,500.00	7,952.12		Miscellaneous items.....	1,900.00	1,944.58		Total.....	42,400.00	42,208.80			
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																								
<i>General Expenses, Bureau of Chemistry—Continued.</i>																																																																										
(85) For collaboration with other departments of the Government desiring chemical investigations and whose heads request the Secretary of Agriculture for such assistance, and for other miscellaneous work ( <i>acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; Oct. 1, 1918, vol. 40, pp. 991-992, sec. 1</i> )-----	\$14,000.00																																																																									
<table border="1"> <thead> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1920.</th><th>Expended, 1918.</th></tr> </thead> <tbody> <tr> <td>Salaries:</td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr> <tr> <td>Engineer in charge.....per annum..</td><td>\$2,760.00</td><td>1</td><td>1</td></tr> <tr> <td>Chemist in charge.....do.....</td><td>3,000.00</td><td>1(part time)</td><td>1(part time)</td></tr> <tr> <td>Chemist.....do.....</td><td>2,400.00</td><td>1</td><td>1</td></tr> <tr> <td>Chemist.....do.....</td><td>2,280.00</td><td>1</td><td>1</td></tr> <tr> <td>Chemist.....do.....</td><td>2,040.00</td><td>1(part time)</td><td>1(part time)</td></tr> <tr> <td>Microanalyst.....do.....</td><td>2,040.00</td><td>1(part time)</td><td>..</td></tr> <tr> <td>Microanalyst.....do.....</td><td>1,800.00</td><td>..</td><td>1(part time)</td></tr> <tr> <td>Assistants in grain dust explosions..do.....</td><td>1,440.00</td><td>2</td><td>3 (1 temp.)</td></tr> <tr> <td>Clerk *.....do.....</td><td>1,200.00</td><td>..</td><td>1(part time)</td></tr> <tr> <td></td><td></td><td>8</td><td>10</td></tr> <tr> <td>Salaries.....</td><td></td><td>\$12,500.00</td><td>\$12,565.00</td></tr> <tr> <td>Other objects of expenditure:</td><td></td><td></td><td></td></tr> <tr> <td>Traveling expenses.....</td><td></td><td>500.00</td><td>432.14</td></tr> <tr> <td>Equipment and material.....</td><td></td><td>800.00</td><td>495.84</td></tr> <tr> <td>Miscellaneous items.....</td><td></td><td>200.00</td><td>273.19</td></tr> <tr> <td>Total.....</td><td></td><td>14,000.00</td><td>13,766.17</td></tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:		<i>Number.</i>	<i>Number.</i>	Engineer in charge.....per annum..	\$2,760.00	1	1	Chemist in charge.....do.....	3,000.00	1(part time)	1(part time)	Chemist.....do.....	2,400.00	1	1	Chemist.....do.....	2,280.00	1	1	Chemist.....do.....	2,040.00	1(part time)	1(part time)	Microanalyst.....do.....	2,040.00	1(part time)	..	Microanalyst.....do.....	1,800.00	..	1(part time)	Assistants in grain dust explosions..do.....	1,440.00	2	3 (1 temp.)	Clerk *.....do.....	1,200.00	..	1(part time)			8	10	Salaries.....		\$12,500.00	\$12,565.00	Other objects of expenditure:				Traveling expenses.....		500.00	432.14	Equipment and material.....		800.00	495.84	Miscellaneous items.....		200.00	273.19	Total.....		14,000.00	13,766.17		
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(86) For investigating the character of the chemical and physical tests which are applied to American food products in foreign countries, and for inspecting the same before shipment when desired by the shippers or owners of these products intended for countries where chemical and physical tests are required before the said products are allowed to be sold therein; and for all necessary expenses in connection with such inspection and studies of methods of analysis in foreign countries ( <i>same acts</i> )-----	4,280.00																																																																									
<table border="1"> <thead> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1920.</th><th>Expended, 1918.</th></tr> </thead> <tbody> <tr> <td>Salaries:</td><td></td><td><i>Number.</i></td><td><i>Number.</i></td></tr> <tr> <td>Chemist.....per annum..</td><td>\$2,760.00</td><td>1(part time)</td><td>1(part time)</td></tr> <tr> <td>Chemist.....do.....</td><td>1,620.00</td><td>1</td><td>1</td></tr> <tr> <td>Clerk *.....do.....</td><td>1,440.00</td><td>..</td><td>1(part time)</td></tr> <tr> <td></td><td></td><td>2</td><td>3</td></tr> <tr> <td>Salaries.....</td><td></td><td>\$3,200.00</td><td>\$3,287.50</td></tr> <tr> <td>Other object of expenditure:</td><td></td><td></td><td></td></tr> <tr> <td>Equipment and material.....</td><td></td><td>1,080.00</td><td>836.71</td></tr> <tr> <td>Total.....</td><td></td><td>4,280.00</td><td>4,124.21</td></tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:		<i>Number.</i>	<i>Number.</i>	Chemist.....per annum..	\$2,760.00	1(part time)	1(part time)	Chemist.....do.....	1,620.00	1	1	Clerk *.....do.....	1,440.00	..	1(part time)			2	3	Salaries.....		\$3,200.00	\$3,287.50	Other object of expenditure:				Equipment and material.....		1,080.00	836.71	Total.....		4,280.00	4,124.21																																		
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(87) For investigating the preparation for market, handling, grading, packing, freezing, drying, storing, transportation, and preservation of poultry and eggs, and for experimental shipments of poultry and eggs within the United States, in cooperation with the Bureau of Markets and the Bureau of Animal Industry [ \$40,000 ] ( <i>same acts</i> )-----	50,000.00																																																																									
NOTE.—There is an increase of \$10,000 in the above item. The extension of the work on the conservation of poultry is especially necessary in order to supplement the supply of beef, mutton, and pork. This investigation will provide the fundamental information and the means for its dissemination looking to the more general prevention of waste and decay. The study of the utilization for poultry fleshing of feeds now wholly or largely wasted would mean the cheap and quick production of millions of pounds of chicken flesh. Great losses in transportation can be prevented or reduced by the extension of this work. The increased cost of travel and of supplies of all kinds makes additional funds necessary.																																																																										



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Bureau of Chemistry—Continued.</i>		

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Chief of laboratory.....per annum..	\$3,500.00	Number. 1(part time)	Number. 1(part time)
Investigators in poultry and egg handling.....do....	2,520.00	2	2(1 part time)
Investigator in poultry and egg handling.....do....	1,908.00	..	1 (temp.)
Investigators in poultry and egg handling.....do....	1,440.00	4	2(1 part time)
Investigators in poultry and egg handling.....do....	1,200.00	2	2
Investigators in poultry and egg handling.....do....	1,080.00	4	4
Investigator in poultry and egg handling.....do....	960.00	1	1
Chemist.....do....	2,280.00	1	1
Chemists.....do....	2,040.00	2	2
Chemists.....do....	1,620.00	2	1
Chemist.....do....	1,440.00	..	1
Bacteriologist.....do....	2,040.00	1	..
Bacteriologist.....do....	1,800.00	..	1
Collaborators, artist, and mi- croanalysts, \$9 per diem to \$300..do....		5 (temp.)	5 (temp.)
Clerks*.....do....	1,200.00	..	2(part time)
Total.....		25	25
Salaries.....		\$33,000.00	\$25,105.13
Other objects of expenditure:			
Traveling expenses.....		6,800.00	4,818.32
Equipment and material.....		6,200.00	4,676.92
Miscellaneous items.....		4,000.00	4,125.41
Total.....		50,000.00	38,725.78

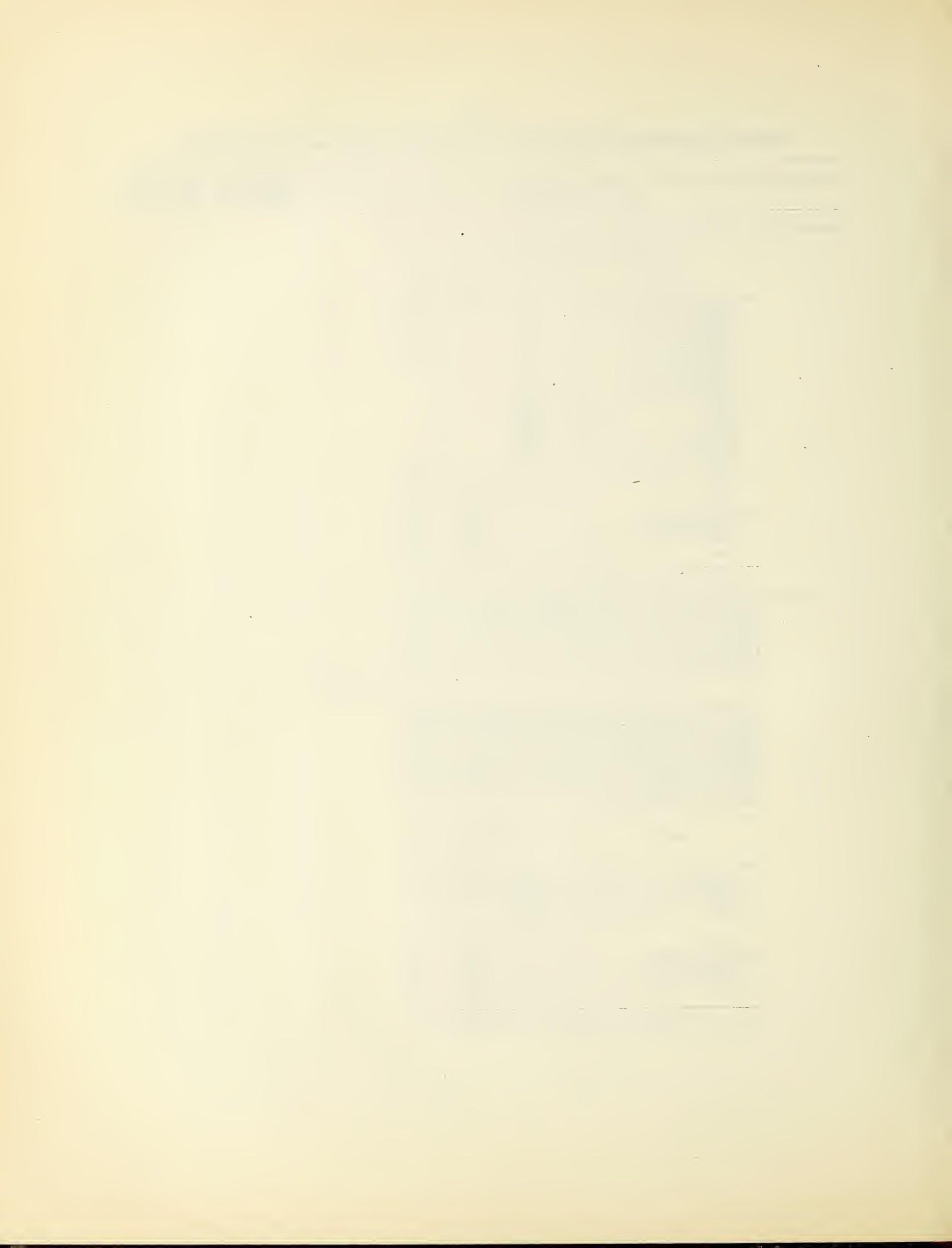
\* Transferred to statutory roll in agricultural act for 1919, from food and drugs fund.

- (88) For investigating the handling, grading, packing, canning freezing, storing, and transportation of fish, and for experimental shipments of fish, for the utilization of waste products, and the development of new sources of food [**\$14,000**] (acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1, Oct. 1, 1918, vol. 40, pp. 991-992, sec. 1) ----- \$20,000.00

NOTE.—An increase of \$6,000 is recommended in the above appropriation. There is an immense annual loss from spoilage of fish because of the lack of knowledge as to the best methods of handling and shipping this product. The work already done by the department has shown that great improvement can be effected in these methods. The continuation and extension of the work will undoubtedly greatly contribute to the conservation of the meat supply by increasing the use of fish as food, especially at interior points where fresh fish can not now be secured in quantity. The increased cost of travel and supplies makes additional funds necessary.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Chief of laboratory.....per annum..	\$3,500.00	Number. 1(part time)	Number. 1(part time)
Chemist in charge.....do....	2,760.00	1(part time)	1(part time)
Bacteriologist.....do....	2,040.00	1	1
Chemists.....do....	1,620.00	2 (1 new)	1
Chemists.....do....	1,200.00	2 (1 new)	1
Clerk*.....do....	1,200.00	..	1(part time)
		7	6
Salaries.....		\$9,500.00	\$6,376.66
Other objects of expenditure:			
Traveling expenses.....		2,500.00	1,297.92
Equipment and material.....		7,000.00	3,563.85
Miscellaneous items.....		1,000.00	1,075.90
Total.....		20,000.00	12,314.33

\* Transferred to statutory roll in Agricultural act for 1919, from food and drugs fund.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Chemistry—Continued.*

- (89) For investigating the packing, handling, storing, and shipping of oysters and other shellfish in the United States and the waters bordering on the United States (*acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; Oct. 1, 1918, vol. 40, pp. 991-992, sec. 1*) ----- \$5,000.00

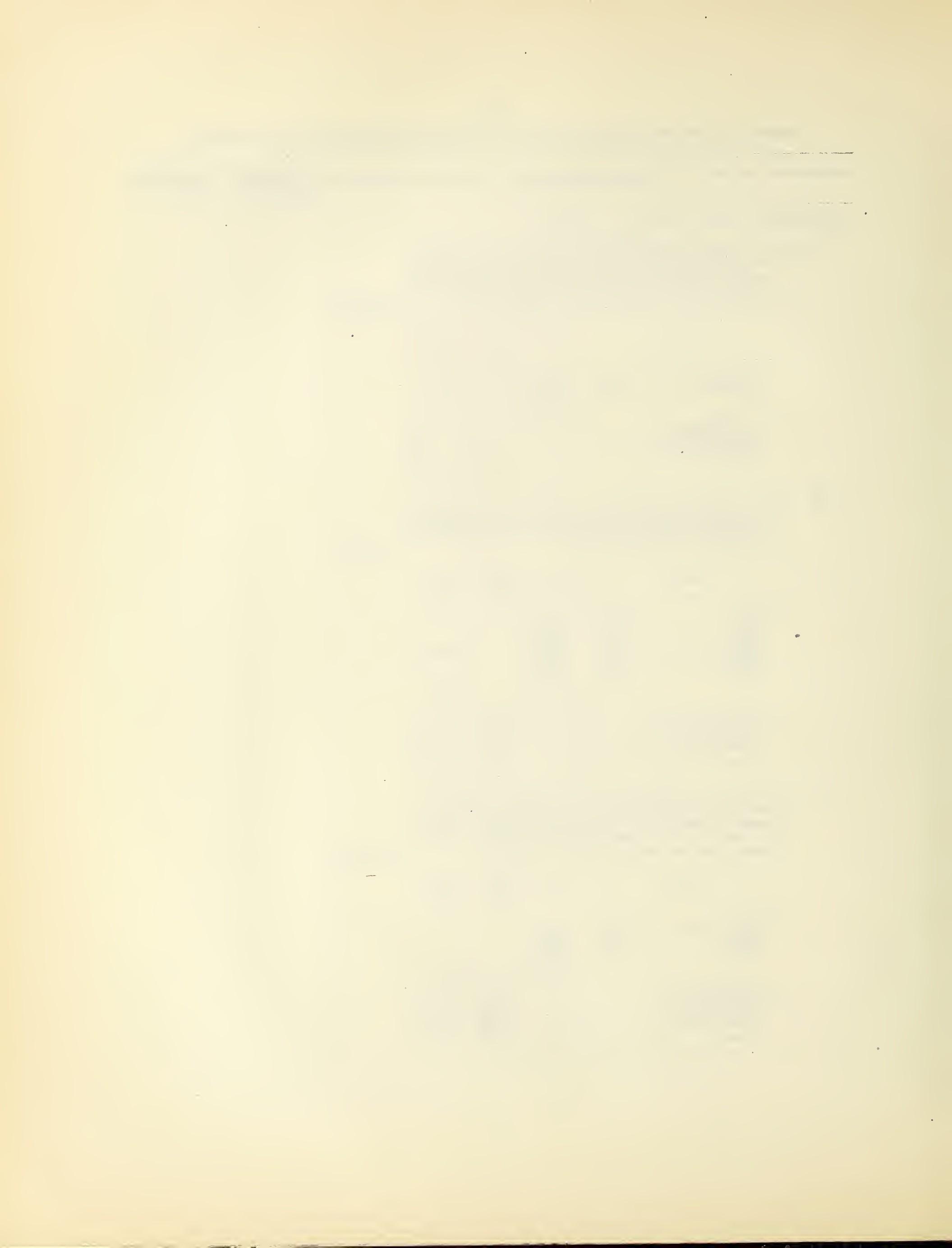
Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Bacteriologists.....per annum..	\$2,280.00	2(parttime)	2(parttime)
Bacteriologist.....do.....	1,620.00	1	1
.....	3	3	
Salaries.....	\$3,000.00		\$2,988.50
Other objects of expenditure:			
Traveling expenses.....	1,275.00		1,009.92
Equipment and material.....	700.00		551.68
Miscellaneous items.....	25.00		19.69
Total.....	5,000.00		4,569.79

- (90) For the biological investigation of food and drug products and substances used in the manufacture thereof, including investigations of the physiological effects of such products on the human organism (*same acts*) ----- 15,000.00

Employees.	Rate.	Estimated, 1920.	Expended. 1918.
Salaries:		Number.	Number.
Chemist.....per annum..	\$3,240.00	1	1
Chemist.....do.....	3,000.00	1	1
Chemist.....do.....	2,280.00	1	1
Chemist.....do.....	2,040.00	1	1
Chemist.....do.....	1,800.00	1	1(parttime)
Chemist.....do.....	1,440.00	1	1
Chemists.....do.....	1,200.00	2	3
Chemist aid.....do.....	1,100.00	1	1
Expert.....per diem.....	8.00	..	1 (temp.)
.....	8	9	
Salaries.....	\$9,500.00		\$9,510.34
Other objects of expenditure:			
Traveling expenses.....	100.00		69.17
Equipment and material.....	5,100.00		3,707.46
Miscellaneous items.....	300.00		277.50
Total.....	15,000.00		13,564.47

- (91) For the study and improvement of methods of utilizing by-products of citrus fruits; and the investigation and development of methods for determining maturity in fruits and vegetables, in cooperation with the Bureau of Plant Industry and the Bureau of Markets (*same acts*) ----- 13,000.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Chemist in charge.....per annum..	\$3,000.00	1	1
Chemist.....do.....	2,040.00	1	1
Chemist.....do.....	1,620.00	1	1
Chemist.....do.....	1,200.00	1	1
Clerk.....do.....	1,200.00	..	1 (temp.)
.....	4	5	
Salaries.....	\$7,860.00		\$7,664.99
Other objects of expenditure:			
Traveling expenses.....	2,600.00		2,576.40
Equipment and material.....	1,540.00		1,381.87
Miscellaneous items.....	1,000.00		1,073.34
Total.....	13,000.00		12,696.60



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Chemistry—Continued.*

- (92) For investigation and experiment in the utilization, for coloring purposes, of raw materials grown or produced in the United States, in cooperation with such persons, associations, or corporations as may be found necessary, including repairs, alterations, improvements, or additions to a building on the Arlington Experimental Farm [§70,720] (acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768–770, sec. 1, Oct. 1, 1918, vol. 40, pp. 991–992, sec. 1) ----- \$100,000.00

NOTE.—There is an increase in the above item of \$29,280. This additional amount will be required to complete the equipment and provide additional scientists to carry on the experimental work in the color laboratory. The increased cost of labor and materials has made the expense for additions to the building at the Arlington Farm so much higher than expected that no funds are available for much of the necessary apparatus and equipment. Owing to the high cost of all apparatus, particularly copper stills and vessels, it is proposed to purchase next year only such equipment as is necessary to carry on the most pressing work.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Chemist in charge.....per annum..	\$3,500.00	1	
Chemist in charge.....do.....	3,250.00	..	1
Chemists.....do.....	2,250.00	2	2
Chemists.....do.....	2,250.00	2	1
Chemists.....do.....	2,040.00	5	5 (1 part time)
Chemists.....do.....	1,800.00	5	4
Chemists.....do.....	1,440.00	1	1
Laboratory technician.....do.....	2,040.00	1	1
Mechanic*.....do.....	1,400.00	..	1
Inspector of construction.....do.....	1,600.00	..	1 (temp.)
Clerk*.....do.....	1,600.00	..	1 (part time)
Clerk†.....do.....	1,600.00	..	1 (part time)
Messenger boy*.....do.....	480.00	..	1
		17	20
Salaries.....		\$34,000.00	\$24,790.60
Other objects of expenditure:			
Traveling expenses.....	3,000.00	1,870.76	
Equipment and material.....	51,000.00	7,737.79	
Miscellaneous items.....	10,000.00	579.76	
Construction work.....	a 2,000.00	b 14,345.00	
Total.....	100,000.00	49,323.91	

*a* This construction work will consist of foundations for heavy equipment and other concrete work about the building at Arlington Farm, Va.

*b* This construction work consisted in alterations and extension to concrete building at Arlington Farm, Virginia, for use as color experimental plant. (Unable to give cubic feet.) The building as remodeled is a concrete structure approximately 100 by 65 by 30 feet high.

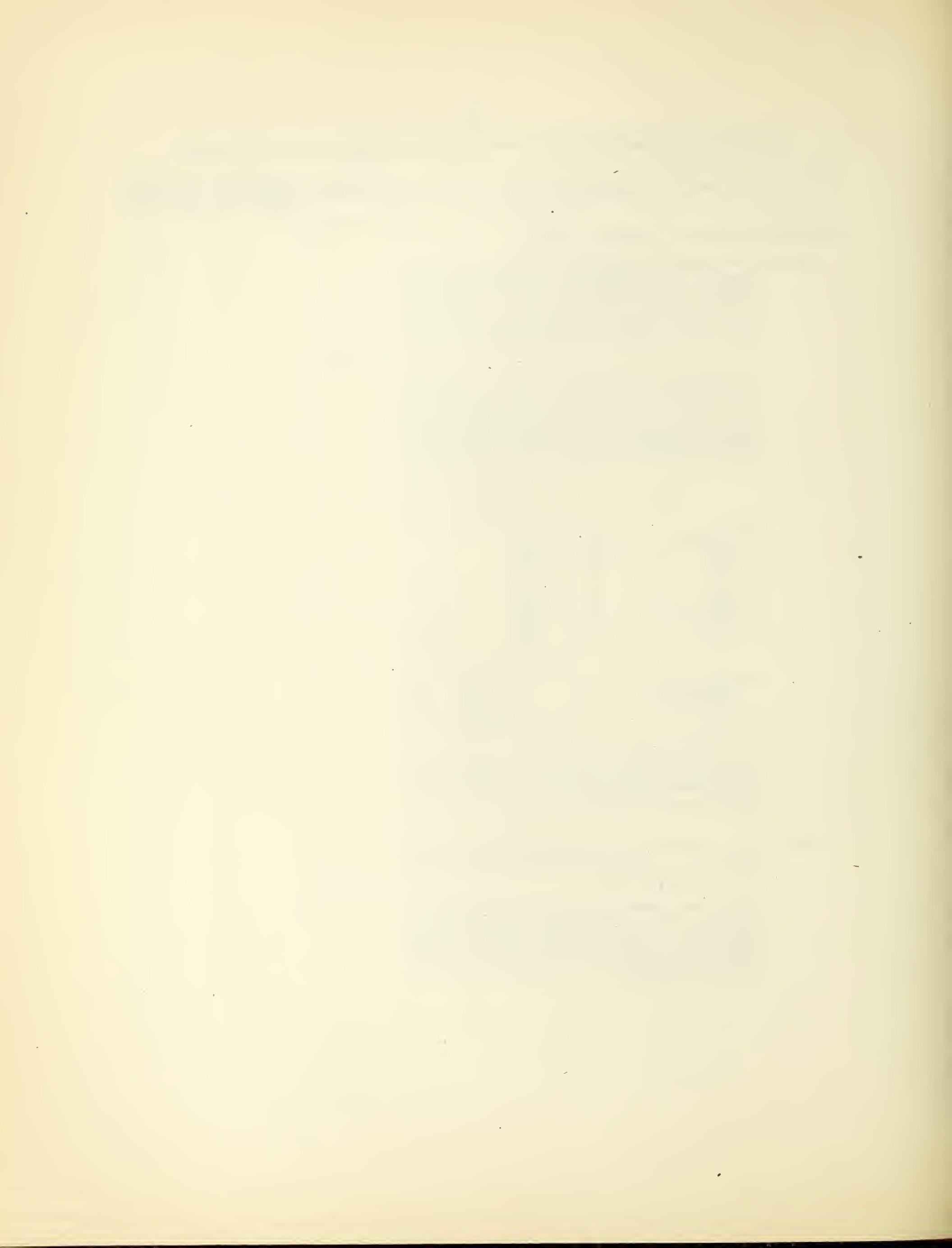
\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920, from food and drugs fund.

- (93) For the investigation and development of methods for the manufacture of table sirup and of methods for the manufacture of sweet sirups by the utilization of new agricultural sources, [§7,000] (same acts) ----- 12,000.00

NOTE.—Although there is an apparent increase of \$5,000 in the above appropriation, this merely makes provision for the transfer of the item "Preparation of sweet sirups" carried in the food production bill for the present fiscal year. The work on sweet sirups is important in its bearing on the sugar supply and will probably require several years' investigation for its proper development.

New language has been added to the paragraph extending the authority to cover the sweet-sirup work.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Chemistry—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Chemist in charge.....per annum..	\$4,000.00	Number. 1 (part time)	Number. 1 (part time)
Chemists.....do.....	2,280.00	2	"
Chemist.....do.....	2,040.00	"	1
Chemists.....do.....	1,620.00	2	1
		5	3
Salaries .....		\$8,000.00	\$4,600.00
Other objects of expenditure:			
Traveling expenses.....		700.00	378.60
Equipment and material.....		3,130.00	1,376.51
Miscellaneous items.....		170.00	69.86
Total.....		12,000.00	6,424.97

- (94) For enabling the Secretary of Agriculture to carry into effect the provisions of the Act of June thirtieth, nineteen hundred and six, entitled "An Act for preventing the manufacture, sale, or transportation of adulterated, or misbranded, or poisonous, or deleterious foods, drugs, medicines, and liquors, and for regulating traffic therein, and for other purposes," in the city of Washington and elsewhere, including chemical apparatus, chemicals and supplies, repairs to apparatus, gas, electric current, official traveling expenses, telegraph and telephone service, express and freight charges, and all other expenses, employing such assistants, clerks and other persons as may be considered necessary for the purposes named, and rent outside of the District of Columbia; and to cooperate with associations and scientific societies in the revision of the United States Pharmacopœia and development of methods of analysis [§589,081] (acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; Oct. 1, 1918, vol. 40, pp. 991-992, sec. 1) ----- \$620,221.00

NOTE.—There is an apparent increase in this item of \$31,140, but taking into consideration transfers to the statutory roll amounting to \$18,860, the actual increase is \$50,000. This additional amount is necessary to meet the increased cost of travel incidental to the enforcement of the food and drugs act and for the purchase of chemicals and chemical apparatus entering into laboratory work; also to more effectively inspect the interstate and import shipments of foods and drugs. Because of the scarcity of certain foods and many drugs, there is a great temptation on the part of some manufacturers to put out spurious products. Most of the grosser forms of adulteration have been checked or entirely stopped, but skillful adulterators practice methods that are more difficult to detect. This work requires increased vigilance on the part of inspectors and necessitates expert chemical and bacteriological investigations. In addition to the regular work, the War and Navy Departments are also calling on the Bureau of Chemistry for assistance in insuring that foods and drugs for the use of the Army and Navy are wholesome and of the quality represented.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.		
<i>General Expenses, Bureau of Chemistry—Continued.</i>				
	Employees.	Rate.	Estimated, 1920.	Expended, 1918.
			Number.	Number.
Salaries:				
Assistant chief.....per annum..	\$4,000.00	1	1	
Chiefs of districts.....do.....	4,000.00	1	2 (1 pt. time)	
Chief of district.....do.....	3,500.00	1	1	
Chief of district.....do.....	3,240.00	1	1 (part time)	
Chemists in charge of laboratories.....do.....	4,000.00	3	3 (1 pt. time)	
Chemists in charge of laboratories.....do.....	3,500.00	1	1	
Chemist in charge of laboratory.....do.....	3,250.00	1	1	
Chemists in charge of laboratories.....do.....	3,000.00	2	2	
Chemist in charge of laboratory.....do.....	3,500.00	1	..	
Chemists in charge of laboratories.....do.....	3,250.00	2	2	
Chemist in charge of laboratory.....do.....	3,000.00	..	1	
Chemist in charge of laboratory.....do.....	2,280.00	1	1	
Chief of station.....do.....	3,250.00	1	1	
Chief of station.....do.....	3,240.00	1	1	
Chiefs of stations.....do.....	2,760.00	3	3	
Chiefs of stations.....do.....	2,520.00	6	6	
Chief of station.....do.....	2,280.00	1	1	
Chiefs of stations.....do.....	2,040.00	2	2	
Chief of station.....do.....	1,800.00	1	1	
Chemist.....do.....	4,000.00	1	1	
Chemists.....do.....	3,000.00	5	4 (2 pt. time)	
Chemists.....do.....	2,760.00	15	15 (2 pt. time)	
Chemists.....do.....	2,520.00	9	9 (1 pt. time)	
Chemist.....do.....	2,400.00	1	1	
Chemists.....do.....	2,280.00	15	14	
Chemists.....do.....	2,040.00	35	30 (2 pt. time)	
Chemists.....do.....	2,000.00	1	1	
Chemists.....do.....	1,800.00	33	37	
Chemists.....do.....	1,620.00	29	24	
Chemists.....do.....	1,440.00	19	27	
Chemists.....do.....	1,356.00	..	1	
Chemist.....do.....	1,260.00	..	1	
Chemist.....do.....	1,300.00	1	..	
Chemists.....do.....	1,200.00	5	6 (1 pt. time)	
Bacteriologists.....do.....	2,280.00	3 (2 pt. time)	3 (2 pt. time)	
Bacteriologist.....do.....	2,040.00	1	1	
Bacteriologist.....do.....	1,620.00	1	1 (pt. time)	
Bacteriologist.....do.....	1,440.00	1	1	
Bacteriologist.....do.....	1,200.00	1	1	
Microanalyst.....do.....	2,520.00	1	..	
Microanalyst.....do.....	2,280.00	..	1	
Microanalyst.....do.....	1,800.00	1	1 (pt. time)	
Microanalysts.....do.....	1,440.00	3	2	
Microanalyst.....do.....	1,200.00	..	1	
Inspector.....do.....	2,000.00	..	1 (pt. time)	
Chemists' aid.....do.....	1,080.00	1	1	
Sampler *.....do.....	1,200.00	..	1	
Sampler.....do.....	1,000.00	..	1 (temp.)	
Laboratory helper *.....do.....	840.00	..	1	
Clerk *.....do.....	1,600.00	..	1 (pt. time)	
Clerk †.....do.....	1,600.00	..	1 (pt. time)	
Clerk *.....do.....	1,440.00	..	1 (pt. time)	
Clerks *.....do.....	1,200.00	..	18	
Clerks †.....do.....	1,200.00	..	11 (2 temp.)	
Clerk.....do.....	1,000.00	..	1 (temp.)	
Assistant to the Secretary.....do.....	2,750.00	..	1 (pt. time)	
Engineer.....do.....	1,500.00	..	1 (temp.)	
Chemists' aids, collaborators, specialists, and experts, \$10 per diem to \$300.....do.....	75 (70 temp.)	87 (84 temp.)		
Multigraph operator †.....do.....	1,000.00	..	1	
Photostat operator.....do.....	1,000.00	..	1 (temp.)	
Watchmen.....do.....	720.00	..	3 (temp.)	
Charwomen †.....do.....	240.00	..	4	
Wages:				
Mechanic *.....do.....	1,000.00	..	1	
Mechanic.....do.....	1,000.00	..	1 (temp.)	
Laborer *.....do.....	720.00	..	1	
		287	353	
Salaries.....		\$418,000.00	\$417,128.02	
Wages.....			2,160.00	
Other objects of expenditure:				
Traveling expenses.....	70,900.00	66,448.52		
Equipment and material.....	103,321.00	92,828.38		
Telegraph and telephone service.....	9,000.00	9,332.64		
Miscellaneous items.....	19,000.00	19,380.67		
Total.....	620,221.00	607,278.23		

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Chemistry—Continued.*

- (95) [H]ereafter the Secretary of the Treasury may detail medical officers of the Public Health Service to the Department of Agriculture for cooperative assistance in the administration of the food and drugs Act, approved June thirtieth, nineteen hundred and six, and amended August twenty-third, nineteen hundred and twelve, and the compensation and expenses of the officers so detailed may be paid from the applicable appropriations made herein for enforcement of said Act.]

NOTE.—The above paragraph has been omitted as it is permanent legislation.

- (96) For investigating the grading, weighing, handling, transportation and uses of naval stores, the preparation of definite type samples thereof, and for the demonstration of improved methods or processes of preparing naval stores, in cooperation with individuals and companies, including the employment of necessary persons and means in the city of Washington and elsewhere (acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1; Oct. 1, 1918, vol. 40, pp. 991-992, sec. 1) ----- \$10,000.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Chemist in charge.....per annum..	\$3,500.00	1 (part time)	1 (part time)
Chemist.....do.....	2,040.00	1 (part time)	1 (part time)
Chemists.....do.....	1,620.00	2	2
Chemist.....do.....	1,440.00	1	1
Chemist.....do.....	1,200.00	1	1
Chemist.....per diem..	5.00	1	1
		7	7
Salaries.....		\$7,000.00	\$6,946.49
Other objects of expenditure:			
Traveling expenses.....		2,200.00	2,207.24
Equipment and material.....		650.00	600.12
Miscellaneous items.....		150.00	178.56
Total.....		10,000.00	9,932.41

- (97) For the investigation and development of methods of manufacturing insecticides and fungicides, and for investigating chemical problems relating to the composition, action, and application of insecticides and fungicides (same acts) ----- 25,000.00

Employees.	Rate.	Estimated, 1920.	Expended,* 1918.
Salaries:		Number.	Number.
Chemist.....per annum..	\$2,520.00	1	..
Chemist.....do.....	2,040.00	1	..
Assistant chemists.....do.....	1,800.00	2	..
Assistant chemists.....do.....	1,620.00	2	..
Assistant chemists.....do.....	1,440.00	2	..
Assistant chemists.....do.....	1,200.00	2	..
		10	..
Salaries.....		\$16,000.00	.....
Other objects of expenditure:			
Traveling expenses.....		3,500.00	.....
Equipment and material.....		4,000.00	.....
Miscellaneous items.....		1,500.00	.....
Total.....		25,000.00	.....

\*No appropriation for fiscal year 1918.

(6)

*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Bureau of Chemistry—Continued.</i>		
(98) To enable the Secretary of Agriculture to cooperate with individuals, firms, or corporations, owning or operating plants for drying or dehydration of vegetables, fruits, and other perishable edible products to determine the best means and processes of dehydration and to disseminate information as to the value and suitability of such products for human food, \$250,000 [which sum shall be immediately available]: <i>Provided</i> , That the Secretary of Agriculture is hereby authorized, if the President shall determine it to be necessary, to use all or any part of this appropriation for the establishment and operation of a plant or plants for the dehydration of vegetables, fruits, and other perishable edible products in any place or places in the United States for the purpose of supplying food for the Army and Navy, and the money received from the operation of any such plant or plants shall constitute a revolving fund until June thirtieth, nineteen hundred and [nineteen] twenty (acts June 3, 1902, vol. 32, p. 303, sec. 1; June 30, 1906, vol. 34, pp. 768-770, sec. 1, Oct. 1, 1918, vol. 40, pp. 991-992, sec. 1)-----	\$250,000.00	

NOTE.—The above item for drying of fruits and vegetables has been transferred from the "Miscellaneous" section of the bill, with the omission of the immediately available clause and the changing of the last word, "nineteen," to "twenty." The drying work has been specifically assigned to the Bureau of Chemistry, and it is believed to be more appropriate to carry the item under this section of the bill. The funds for the current fiscal year became available so late that, if any effective work of this character is to be done, the appropriation should be extended for at least another year.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:			
Engineer.....per annum..	\$3,000.00	1	..
Engineers.....do.....	2,500.00	2	..
Chemists.....do.....	2,500.00	2	..
Scientists.....do.....	1,800.00	2	..
Specialist.....do.....	3,000.00	1	..
Specialists.....do.....	1,800.00	2	..
Specialists.....do.....	1,600.00	4	..
Assistants.....do.....	1,440.00	6	..
Assistants.....do.....	1,200.00	6	..
Mechanics.....do.....	1,500.00	4	..
Mechanics.....do.....	1,200.00	5	..
		35	..
Salaries.....		\$56,240.00	.....
Other objects of expenditure:			
Traveling expenses.....	10,000.00	.....	
Equipment and material.....	160,000.00	.....	
Miscellaneous items.....	23,760.00	.....	
Total.....	250,000.00	.....	

\* No appropriation for fiscal year 1918.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriations.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Chemistry—Continued.*

- (99) *For experiments in the manufacture of rare chemicals for use in chemical research, including investigation of domestic sources of supply, \$10,000; and the Secretary of Agriculture may furnish, upon application, samples of rare chemicals to investigators for research work and charge for the same a price to cover the cost thereof, such price to be determined and established by the Secretary, and the money received from sales to be deposited in the Treasury of the United States as miscellaneous receipts (submitted) . . . . . \$10, 000. 00*

NOTE.—This is a new item. Certain rare chemicals necessary in chemical research work are not now manufactured in the United States. The required amount of some of these rare chemicals is small and varies to such an extent that it is not profitable to manufacture them commercially. In order that the chemical industry may develop to the fullest extent, it is highly important that investigators be able to secure any rare chemicals needed to carry on research. It is proposed to manufacture in the laboratories of the Bureau of Chemistry only such rare chemicals as are not now manufactured in the United States. The amount requested will provide for the salaries and expenses of two chemists, in addition to the equipment and materials required for the prosecution of the work.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:		Number.	Number.
Chemist in charge.....per annum..	\$2,500.00	1	.....
Chemist.....do.....	2,000.00	1	.....
		2	.....
Salaries.....		\$4,500.00	.....
Other objects of expenditure:			
Traveling expenses.....		200.00	.....
Equipment and material.....		5,100.00	.....
Miscellaneous items.....		200.00	.....
Total.....		10,000.00	.....

\* No appropriation for fiscal year 1918.

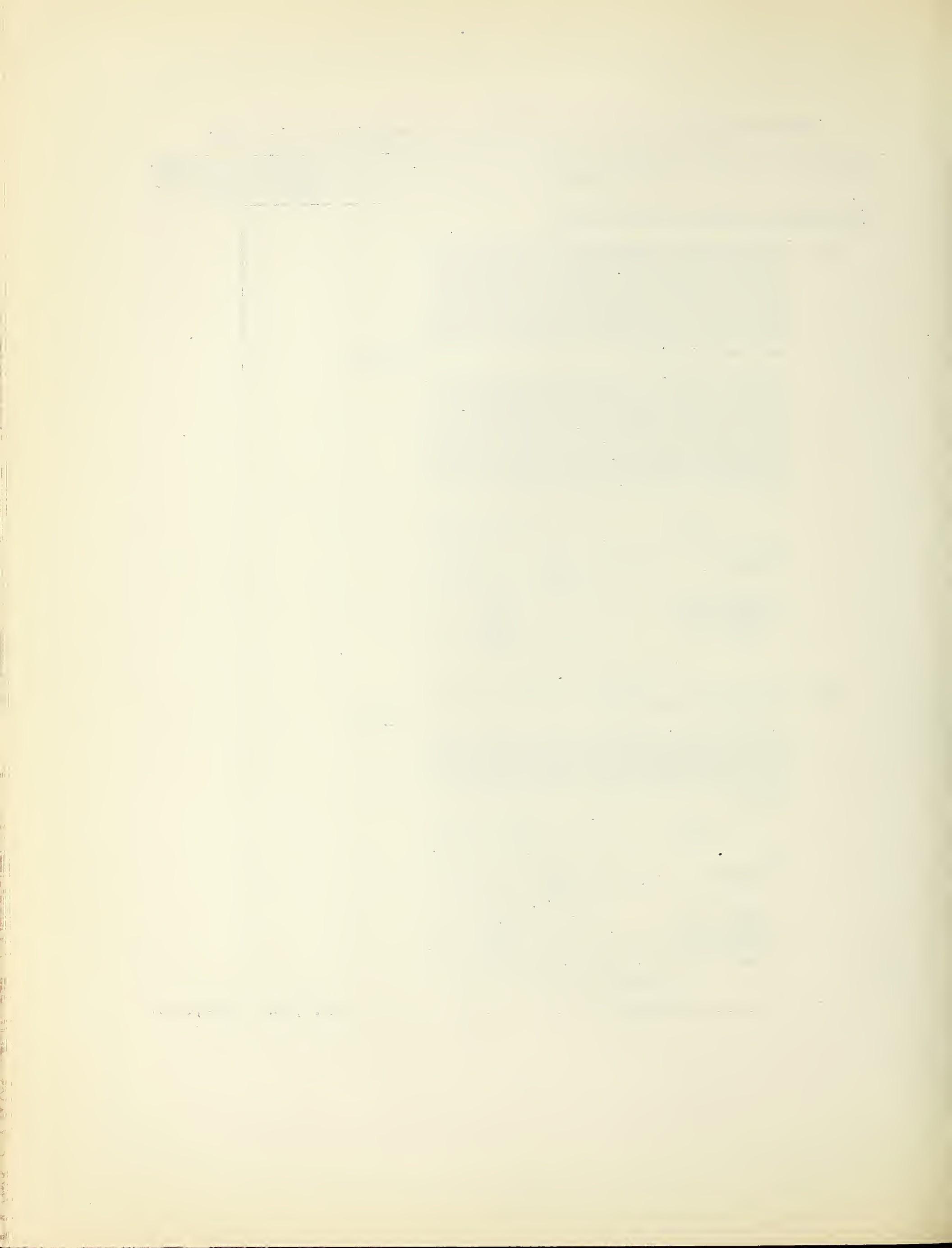
- (100) *For the investigation and development of methods of utilizing wool-scouring waste (submitted) . . . . . 9, 000. 00*

NOTE.—Although there is an apparent increase of \$9,000 in the above appropriation, this merely provides for the transfer of the item "Utilization of wool-scouring wastes" carried in the food production bill for the current fiscal year. The development of methods for utilizing wool-scouring wastes will probably require several years' investigation, and it is therefore believed desirable to have the item included in the agricultural act.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:		Number.	Number.
Chemical engineer.....per annum..	\$2,500.00	1	.....
Junior chemist.....do.....	1,800.00	1	.....
		2	.....
Salaries.....		\$4,300.00	.....
Other objects of expenditure:			
Traveling expenses.....		2,000.00	.....
Equipment and material.....		2,000.00	.....
Miscellaneous items.....		700.00	.....
Total.....		9,000.00	.....

\* No appropriation for fiscal year 1918.

In all, for general expenses . . . . . \$1, 199, 901. 00      \$849, 481. 00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year, ending June 30, 1919.
<i>General Expenses, Bureau of Chemistry—Continued.</i>		
Appropriations for 1910..... <sup>1</sup> \$117,540	Estimates for 1911..... <sup>2</sup> \$114,000	
Appropriations for 1911..... <sup>1</sup> 114,000	Estimates for 1912..... <sup>2</sup> 111,480	
Appropriations for 1912..... <sup>1</sup> 111,480	Estimates for 1913..... <sup>2</sup> 101,280	
Appropriations for 1913..... <sup>1</sup> 89,280	Estimates for 1914..... <sup>2</sup> 114,280	
Appropriations for 1914..... <sup>1</sup> 109,280	Estimates for 1915..... <sup>2</sup> 180,680	
Appropriations for 1915..... <sup>1</sup> 150,680	Estimates for 1916..... <sup>2</sup> 164,080	
Appropriations for 1916..... <sup>1</sup> 139,680	Estimates for 1917..... <sup>3</sup> 832,211	
Appropriations for 1917..... <sup>3</sup> 838,211	Estimates for 1918..... <sup>3</sup> 927,201	
Appropriations for 1918..... <sup>3</sup> 837,601	Estimates for 1919..... <sup>3</sup> 849,481	
Appropriations for 1919..... <sup>3</sup> 849,481	Estimates for 1920..... <sup>1</sup> 1,199,901	
<p><sup>1</sup> Exclusive of amount provided for enforcement of the food and drugs act.  <sup>2</sup> Exclusive of amount asked for enforcement of the food and drugs act.  <sup>3</sup> Includes amount for enforcement of the food and drugs act.</p>		
<i>Statement of clerks employed in District of Columbia under lump-sum appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).</i>		
GENERAL EXPENSES—BUREAU OF CHEMISTRY.		
2 clerks, at \$1,600 each per annum.		
2 clerks, at \$1,400 each per annum.		
30 clerks, at \$1,200 each per annum.		
Total for Bureau of Chemistry.....	\$1,611,571.00	\$1,243,391.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<b>BUREAU OF SOILS.</b>		
<i>Salaries, Bureau of Soils—</i>		
(1) One soil physicist, who shall be chief of bureau ( <i>R. S., p. 87, secs. 520-523, acts June 3, 1902, vol. 32, p. 297, sec. 1; Oct. 1, 1918, vol. 40, p. 992, sec. 1</i> )-----	\$4,000.00	
(2) One chief clerk ( <i>same acts</i> )-----	2,000.00	
(3) One executive assistant ( <i>same acts</i> )-----	2,000.00	
(4) Four clerks, class 4 ( <i>same acts</i> )-----	7,200.00	
(5) Two clerks, class 3 ( <i>same acts</i> )-----	3,200.00	
(6) Five clerks, class 2 ( <i>same acts</i> )-----	7,000.00	
(7) One clerk ( <i>same acts</i> )-----	1,260.00	
(8) Ten clerks, class 1 ( <i>same acts</i> )-----	12,000.00	
(9) Seven clerks, at \$1,000 each ( <i>same acts</i> )-----	7,000.00	
(10) One soil cartographer ( <i>same acts</i> )-----	1,800.00	
(11) One chief draftsman ( <i>same acts</i> )-----	1,600.00	
(12) One soil bibliographer or draftsman ( <i>same acts</i> )-----	1,400.00	
(13) One photographer ( <i>same acts</i> )-----	1,200.00	
(14) Five draftsmen, at \$1,200 each ( <i>same acts</i> )-----	6,000.00	
(15) One clerk-draftsman ( <i>same acts</i> )-----	1,200.00	
(16) Two draftsmen, at \$1,000 each ( <i>same acts</i> )-----	2,000.00	
(17) One laboratory helper ( <i>same acts</i> )-----	1,000.00	
(18) Three laboratory helpers, at \$840 each ( <i>same acts</i> )-----	2,520.00	
(19) One machinist ( <i>same acts</i> )-----	1,440.00	
(20) One machinist ( <i>same acts</i> )-----	1,380.00	
(21) One instrument maker ( <i>same acts</i> )-----	1,200.00	
(22) One machinist's helper ( <i>same acts</i> )-----	900.00	
(23) One messenger ( <i>same acts</i> )-----	840.00	
(24) Three messengers, messenger boys, or laborers, at \$480 each ( <i>same acts</i> )-----	1,440.00	
(25) Three laborers, at \$600 each ( <i>same acts</i> )-----	1,800.00	
(26) One laborer ( <i>same acts</i> )-----	300.00	
(27) One charwoman or laborer ( <i>same acts</i> )-----	480.00	
Appropriations for 1910.....\$35,500   Estimates for 1911.....\$37,420	\$74,160.00	\$74,160.00
Appropriations for 1911.....37,420   Estimates for 1912.....52,020		
Appropriations for 1912.....48,320   Estimates for 1913.....57,330		
Appropriations for 1913.....50,540   Estimates for 1914.....57,420		
Appropriations for 1914.....53,620   Estimates for 1915.....59,420		
Appropriations for 1915.....60,820   Estimates for 1916.....62,420		
Appropriations for 1916.....62,420   Estimates for 1917.....70,000		
Appropriations for 1917.....70,000   Estimates for 1918.....72,620		
Appropriations for 1918.....72,220   Estimates for 1919.....74,160		
Appropriations for 1919.....74,160   Estimates for 1920.....74,160		

100

*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Soils—Continued.</i>		
SUPPLEMENTAL ESTIMATE.		
<i>Promotions:</i>		
(28) 1 chief clerk, \$2,000 to \$2,500-----	\$500. 00	
(Promotions are recommended for the chief clerk and the clerk in charge of the editorial work of the bureau. Both of these employees have been connected with the bureau since its organization 17 years ago, the chief clerk having never been promoted, while the editorial clerk was last promoted over 14 years ago. They are in charge of important lines of work and have rendered invaluable assistance in the development of the bureau's activities. Their salaries are not commensurate with their responsibilities, with the services rendered, or with salaries paid in other departments for similar or less important responsibilities. Subordinate employees of the bureau working under these men have left in numbers and have invariably received higher salaries on the outside, a number of them receiving salaries in excess of anything paid in the bureau.)		
(29) 1 clerk, class 4, to 1 editor, \$2,100-----	300. 00	
(See preceding note. The change in title recommended is desirable so that it will clearly indicate the character of work performed.)		
(30) 3 laboratory helpers, \$840 to \$900 each-----	180. 00	
(The above promotions and those which follow are recommended in order that the salaries of the respective positions may conform to the minimum salaries recommended for such positions, as set forth in the general note regarding minimum salaries. To this end a number of changes in title are indicated and are necessary.)		
(31) 1 messenger, \$840, to 1 messenger or laborer, \$900-----	60. 00	
(See preceding note.)		
(32) 1 messenger, messenger boy, or laborer, \$480, to 1 messenger or laborer, \$900-----	420. 00	
(See preceding note.)		
(33) 2 laborers, at \$600 each, to 2 skilled laborers, at \$1,000 each..	800. 00	
(See preceding note.)		
(34) 1 laborer, \$600, to messenger or laborer, \$900-----	300. 00	
(See preceding note.)		
(35) 1 laborer, \$300 to \$450 (half time)-----	150. 00	
(See preceding note.)		
(36) 1 charwoman or laborer, \$480, to 1 messenger or laborer, \$900.-----	420. 00	
(See preceding note.)		
Net increase-----	3, 130. 00	
<i>Changes in title:</i>		
(37) 2 messengers, messenger boys, or laborers; at \$480 each, to 2 messenger boys, at \$480 each.		
(These changes are recommended in order that the titles of the positions may clearly indicate the character of work performed.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Soils—*

(38) For all necessary expenses connected with the investigations and experiments hereinafter authorized, including the employment of investigators, local and special agents, assistants, experts, clerks, draftsmen, and labor in the city of Washington and elsewhere; official traveling expenses, materials, tools, instruments, apparatus, repairs to apparatus, chemicals, furniture, office fixtures, stationery, gas, electric current, telegraph and telephone service, express and freight charges, rent outside the District of Columbia, and for all other necessary supplies and expenses, as follows (*acts June 3, 1902, vol. 32, p. 297, sec. 1; Oct. 1, 1918, vol. 40, pp. 992–993, sec. 1*):

(39) For chemical investigations of soil types, soil composition and soil minerals, the soil solution, solubility of soil and all chemical properties of soils in their relation to soil formation, soil texture, and soil productivity, including all routine chemical work in connection with the soil survey (*same acts*) ----- \$25,610.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Biochemist.....per annum..	\$3,000.00	1	1
Scientist.....do.....	2,400.00	1	1 (temp.)
Scientist.....do.....	2,220.00	1	
Scientists.....do.....	2,000.00	1	2
Scientist.....do.....	1,800.00	1	1
Scientist.....do.....	1,740.00	1	1
Scientists.....do.....	1,680.00	2	1
Scientists.....do.....	1,620.00	2	2
Scientist.....do.....	1,600.00	1	1
Scientist.....do.....	1,560.00	..	1
Scientists.....do.....	1,440.00	2	3 (1 temp.)
Laboratory helpers.....per month..	50.00	..	2
		13	16
Salaries.....		\$24,240.00	\$19,271.48
Other objects of expenditure:			
Traveling expenses.....	50.00	17.30	
Equipment and material.....	1,170.00	2,300.99	
Miscellaneous items.....	150.00	76.96	
Total.....	25,610.00	21,666.73	

(40) For physical investigations of the important properties of soil which determine productivity, such as moisture relations, aeration, heat conductivity, texture, and other physical investigations of the various soil classes and soil types (*same acts*) -----

12,225.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Scientist in charge.....per annum..	\$3,240.00	1	1
Scientist in charge.....do.....	3,000.00	..	1
Scientist.....do.....	2,160.00	1	..
Scientist.....do.....	2,040.00	..	1
Scientist.....do.....	1,800.00	..	1 (temp.)
Scientist.....do.....	1,740.00	1	..
Scientist.....do.....	1,500.00	1	2
Scientist.....do.....	1,440.00	..	1 (temp.)
Scientist.....do.....	1,320.00	..	1 (temp.)
Instrument maker.....do.....	1,600.00	1	..
		5	7
Salaries.....		\$10,240.00	\$8,806.00
Other objects of expenditure:			
Traveling expenses.....	50.00	39.95	
Equipment and material.....	1,785.00	2,452.92	
Miscellaneous items.....	150.00	142.84	
Total.....	12,225.00	11,441.71	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Soils—Continued.*

- (41) For exploration and investigation within the United States to determine possible sources of supply of potash, nitrates, and other natural fertilizers [§31,340] (acts June 3, 1902, vol. 32, p. 297, sec. 1; Oct. 1, 1918, vol. 40, pp. 992-993, sec. 1). \$50,000.00

NOTE.—There is an increase in the above item of \$18,660. The several lines of investigational work carried on under this appropriation have expanded very materially during the past year and a half. Seven chemists were recently detailed by the Bureau of Ordnance of the War Department to the Arlington Farm laboratory to cooperate in the experiments on nitrogen fixation and allied problems. Without this assistance it would have been impossible to develop the work to its present stage. It may be necessary for the War Department to withdraw some, if not all, of these chemists at any time, and the Department of Agriculture should be in a position to continue the work without outside assistance, since it is as important from a fertilizer standpoint in time of peace as a munition standpoint in time of war. At the present time five chemists are detailed from the chemical division and two from the physical division of the Bureau of Soils to assist temporarily with this work. This means a temporary suspension of important work upon which these chemists were previously engaged, which should be renewed with the advent of peace. There is also need for additional laboratory space and equipment. In order to carry on the nitrogen-fixation investigations on the scale desired by the War Department, the Arlington Farm laboratory has been turned over to that work entirely, thereby making necessary the transfer of the potash and phosphoric acid investigations to the chemical laboratory in Washington. Since the work has been begun and carried forward thus far on this scale, it is believed necessary for efficient operation to continue it on the same basis, involving the use of practically all the present laboratory space of the Bureau of Soils at Arlington Farm.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>			
Assistant in charge of fertilizer investigations.....per annum..	\$3,240.00	1	1
Scientist.....do.....	2,640.00	2	2
Scientist.....do.....	2,500.00	1	-
Scientist.....do.....	2,220.00	1	1
Scientist.....do.....	2,000.00	1	2
Scientist.....do.....	1,980.00	1	-
Scientist.....do.....	1,800.00	1 (new)	1
Scientist.....do.....	1,620.00	3 (new)	-
Scientist.....do.....	1,560.00	-	1 (temp.)
Scientist.....do.....	1,500.00	3 (new)	1 (temp.)
Scientist.....do.....	1,440.00	4 (1 new)	3 (2 temp.)
Laboratory helper.....do.....	1,100.00	-	1
Watchman.....do.....	720.00	-	2 (temp.)
Collaborator.....do.....	300.00	1	1
<b>Wages:</b>			
Machinist.....do.....	1,440.00	-	1
Machinist.....do.....	1,680.00	2	-
Laborer *.....do.....	600.00	-	1
		21	18
<b>Salaries.</b>			
Salaries.....	\$34,440.00	\$22,188.17	
Wages.....	3,360.00	2,040.00	
<b>Other objects of expenditure:</b>			
Traveling expenses.....	650.00	540.99	
Equipment and material.....	8,000.00	5,393.40	
Miscellaneous items.....	3,550.00	2,751.71	
<b>Total.....</b>	<b>50,000.00</b>	<b>32,914.18</b>	

\* Transferred to statutory roll in Agricultural act for 1919.

- (42) For the investigation of soils, in cooperation with other branches of the Department of Agriculture, other departments of the Government, State agricultural experiment stations, and other State institutions, for the examination and classification of agricultural lands in forest reserves, in cooperation with the Forest Service, and for indicating upon maps and plats, by coloring or otherwise, the results of such investigations [§198,200] (same acts) ..... 216,300.00

NOTE.—It is proposed to merge the item "Classification of agricultural lands in forest reserves" with the item for "Soil survey investigations" and to incorporate the language of the former paragraph with that of the latter. There is no change whatever in the language or the total amount



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Soils—Continued.*

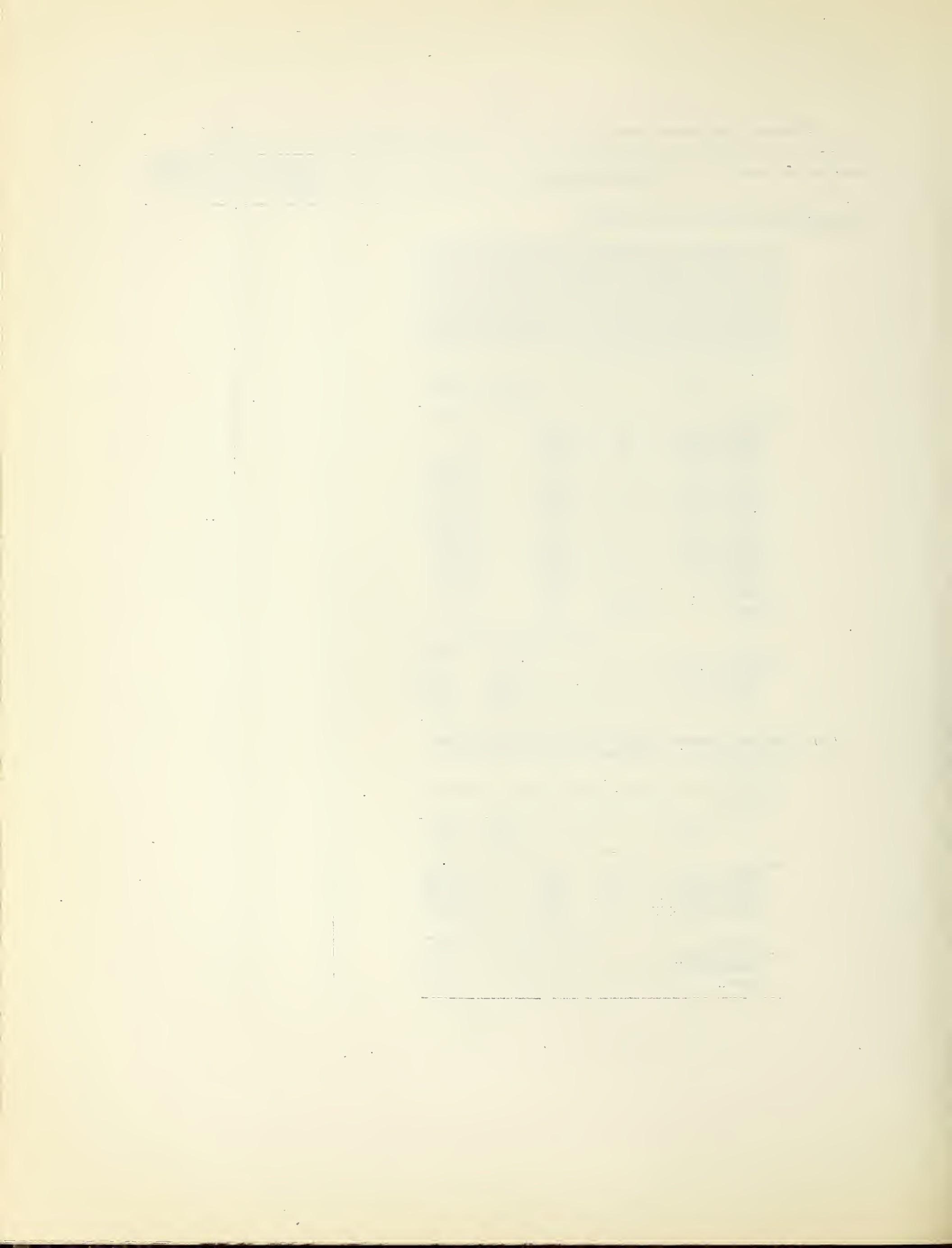
of the two items, but it is believed that this combination will tend to greater efficiency in the administration and direction of the two lines of work. The field examination and classification of agricultural lands in forest reserves is practically a reconnaissance soil survey. It is conducted almost exclusively during the summer months, and during the winter it is necessary to transfer the men to the regular soil survey. It would not be possible to obtain men qualified to do land-classification work for summer assignments only. The combining of the two appropriations will therefore aid materially in a more expeditious handling of the office administration, without in the least affecting the authority or interfering with the work as now conducted.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Scientist in soil survey.....per annum..	\$3,750.00	1	1
Scientist in soil survey.....do.....	3,250.00	1	1
Scientist in soil survey.....do.....	2,750.00	5	5
Scientist in soil survey.....do.....	2,500.00	1	1
Scientist in soil survey.....do.....	2,000.00	1	1 (temp.)
Scientist in soil survey.....do.....	1,920.00	4	4 (1 temp.; 1 part time)
Scientist in soil survey.....do.....	1,800.00	5	5 (1 part time)
Scientist in soil survey.....do.....	1,740.00	3	3
Scientist in soil survey.....do.....	1,680.00	4	4 (1 temp.)
Scientist in soil survey.....do.....	1,620.00	2	2 (part time)
Scientist in soil survey.....do.....	1,560.00	8	6 (1 temp.)
Scientist in soil survey.....do.....	1,500.00	5	6 (2 part time; 3 temp.)
Scientist in soil survey.....do.....	1,440.00	9	4 (2 temp.)
Scientist in soil survey.....do.....	1,380.00	..	1 (temp.)
Scientist in soil survey.....do.....	1,320.00	12	12 (4 temp.)
Scientist in soil survey.....do.....	1,200.00	10	8 (2 temp.)
Scientist in soil survey.....do.....	1,080.00	10	12 (9 temp.)
Photographer.....do.....	1,200.00	..	1 (temp.)
Clerk.....do.....	1,000.00	..	1 (temp.)
Collaborators.....do.....	1.00	25	21
Wages:			
Machinist.....per month..	75.00	..	1 (temp.)
Laborer.....per annum..	600.00	..	1 (temp.)
		106	101
Salaries.....		\$128,715.00	\$96,114.23
Wages.....			100.00
Other objects of expenditure:			
Traveling expenses.....		82,000.00	68,293.80
Equipment and material.....		3,585.00	3,750.59
Miscellaneous items.....		2,000.00	508.88
Total.....		216,300.00	168,767.50

(43) [For the examination and classification of agricultural lands in forest reserves, in cooperation with the Forest Service, \$18,100.]

NOTE.—This item has been merged with soil-survey investigations (see item 42).

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Scientist in soil survey.....per annum..	\$1,920.00	..	1 (part time)
Scientist in soil survey.....do.....	1,800.00	..	1 (part time)
Scientist in soil survey.....do.....	1,620.00	..	1 (part time)
Scientist in soil survey.....do.....	1,500.00	..	2 (part time)
Scientist in soil survey.....do.....	1,200.00	..	1 (part time)
Scientist in soil survey.....do.....	1,080.00	..	2 (part time)
		8	
Salaries.....			\$5,041.67
Other objects of expenditure:			
Traveling expenses.....			3,786.74
Miscellaneous items.....			9.02
Total.....			8,837.43



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Soils—Continued.*

- (44) For the investigation and demonstration within the United States to determine the best method of obtaining potash on a commercial scale, \$127,600: *Provided*, That the product obtained from such experimentation may be sold at a price to be determined by the Secretary of Agriculture, and the amount obtained from the sale thereof shall be covered into the Treasury as miscellaneous receipts (*acts June 3, 1902, vol. 32, p. 297, sec. 1; Oct. 1, 1918, vol. 40, pp. 992–993, sec. 1*) ----- \$127,600.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Scientist.....per annum.....	\$3,000.00	1	1
Mechanical engineer.....do.....	2,500.00	1	1
Manager of operations.....do.....	2,500.00	1	1 (temp.)
Master mechanic.....do.....	2,160.00	1	1 (temp.)
Organic chemist.....do.....	2,040.00	1	1
Clerk.....do.....	1,680.00	1	1
Clerk.....do.....	1,560.00	..	1
Clerk.....do.....	1,200.00	..	1 (temp.)
Stenographer and typewriter.....do.....	1,320.00	1	1 (temp.)
Draftsman.....per diem.....	5.00	..	1 (temp.)
Foreman of kelp harvester.....per annum.....	1,800.00	1	1 (temp.)
Foreman of kelp harvester.....do.....	1,500.00	..	2 (temp.)
General mechanic.....per month.....	130.00	1	1
Kelp dryer operator.....do.....	105.00	2	2 (1 temp.)
Kelp dryer operator.....do.....	100.00	..	1
Hoist operator.....do.....	100.00	1	1
Engineer.....do.....	115.00	1	1
Watchmen.....do.....	75.00	2	3 (temp.)
Watchman.....do.....	65.00	..	1 (temp.)
Watchman.....per diem.....	2.50	..	1 (temp.)
Wages:			
Temporary laborers, carpenters, mechanics, electricians, brick masons, deckhands, etc., \$6 to \$2.75.....per diem.....	40	110	
	55	134	
Salaries.....	\$25,460.00	\$23,443.21	
Wages.....	19,340.00	21,240.20	
Other objects of expenditure:			
Traveling expenses.....	1,200.00	1,198.72	
Equipment and material.....	66,400.00	74,641.49	
Rent.....	3,500.00	2,698.03	
Freight and express.....	4,000.00	3,222.82	
Light, power, and electricity.....	7,500.00	6,906.15	
Total.....	127,600.00	135,377.49	

- (45) For general administrative expenses connected with the above-mentioned lines of investigation (*same acts*) ----- 4,000.00

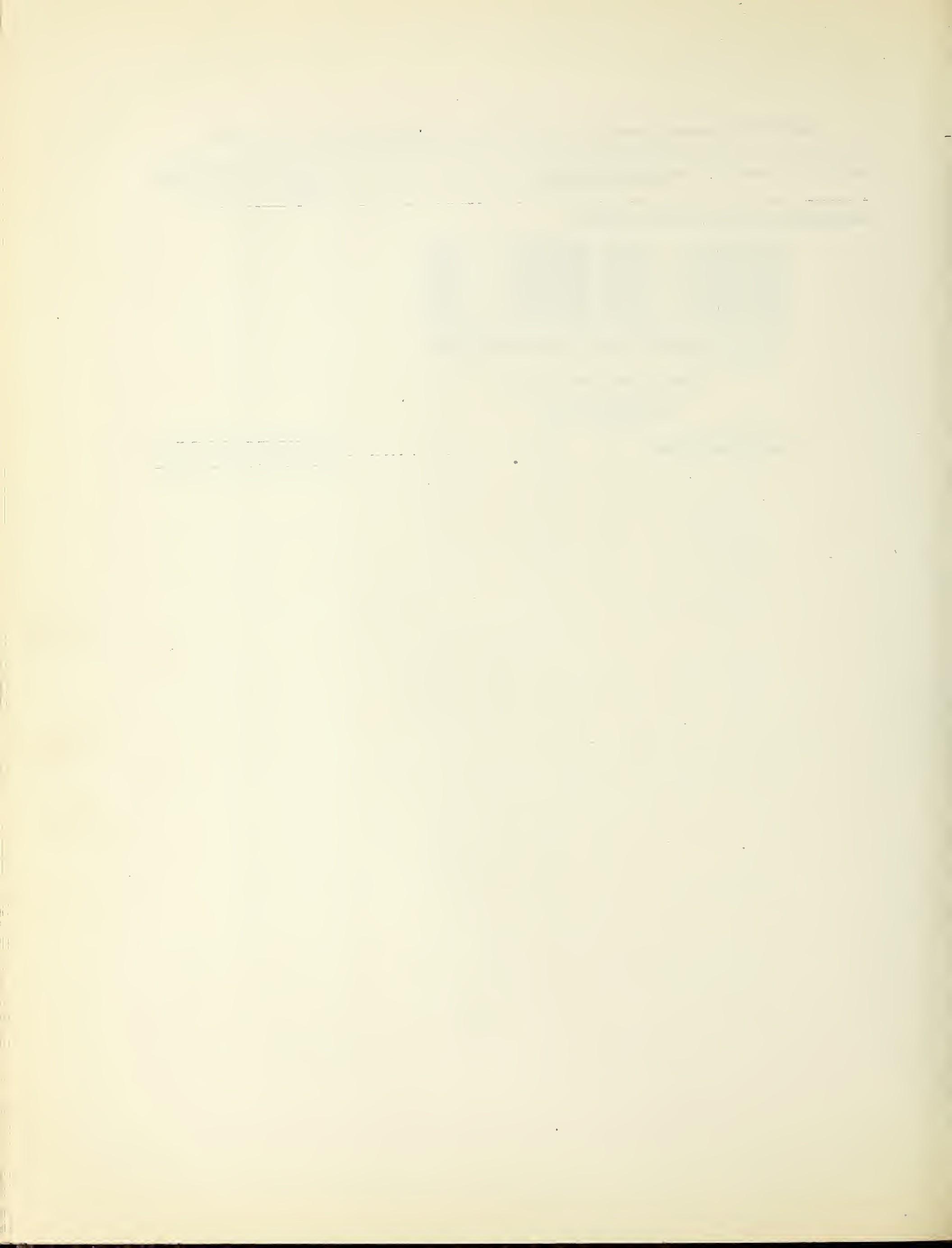
Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Clerk.....per annum.....	\$1,000.00	1 (temp.)	1 (temp.)
Clerk.....do.....	900.00	..	1 (temp.)
Messenger.....do.....	792.00	..	1 (part time)
Watchman.....do.....	720.00	..	3 (temp.)
Messenger boy.....do.....	480.00	..	1 (temp.)
Wages:			
Temporary laborers.....per diem.....	2.50	2	2
Temporary laborers.....per month.....	50.00	1	3
	4	12	
Salaries.....	\$500.00	\$655.22	
Wages.....	200.00	108.00	
Other objects of expenditure:			
Stationery.....	1,000.00	1,076.07	
Traveling expenses.....	25.00	25.00	
Equipment and material.....	1,300.00	1,000.78	
Telephone and telegraph service.....	200.00	195.63	
Miscellaneous items.....	800.00	352.22	
Total.....	4,000.00	3,413.82	

In all, for general expenses ----- \$435,735.00 \$417,075.00



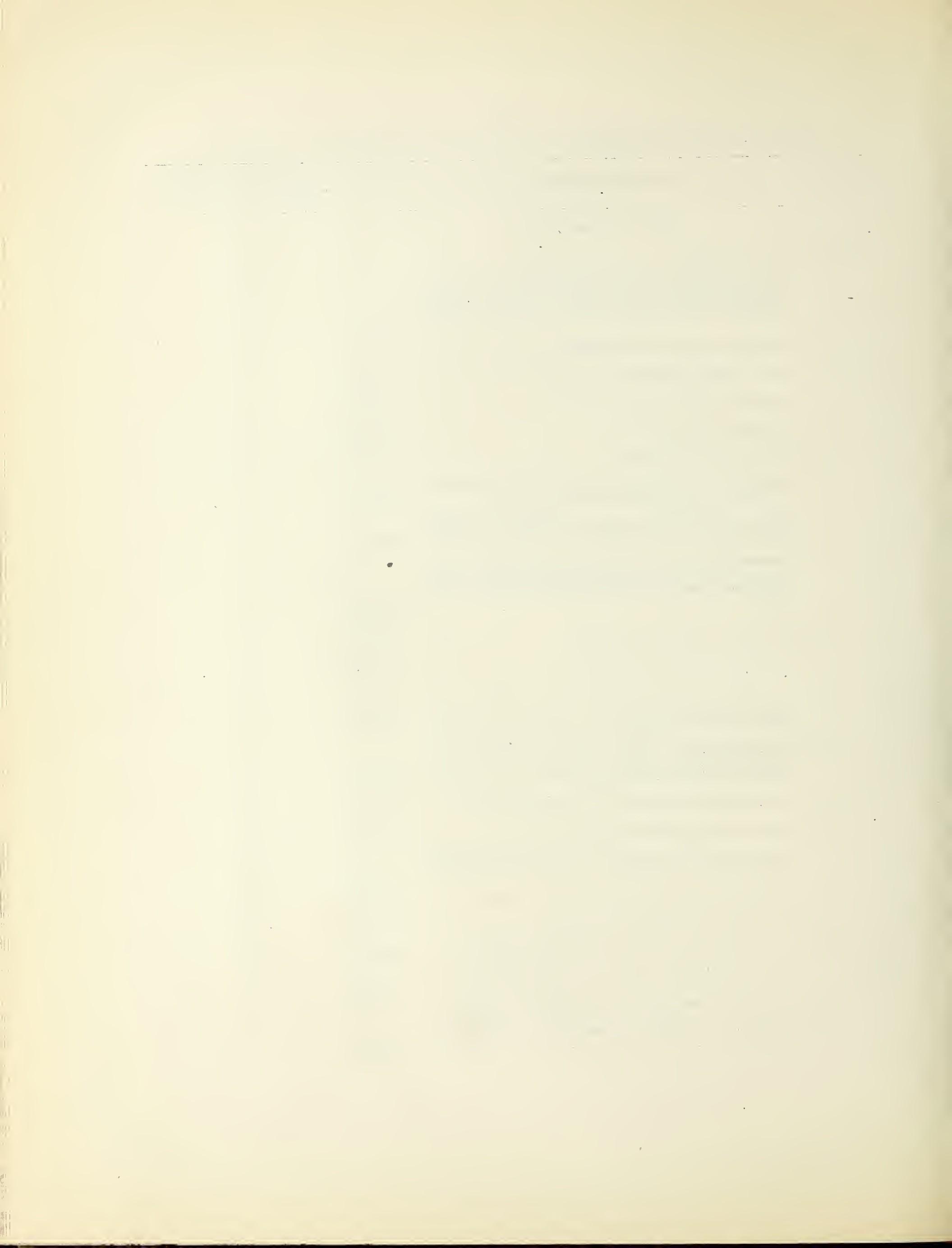
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
General Expenses, Bureau of Soils—Continued.		
Appropriations for 1910..... \$197,360	Estimates for 1911..... \$193,600	
Appropriations for 1911..... 193,600	Estimates for 1912..... 228,700	
Appropriations for 1912..... 213,740	Estimates for 1913..... 284,370	
Appropriations for 1913..... 250,880	Estimates for 1914..... 315,400	
Appropriations for 1914..... 280,400	Estimates for 1915..... 299,020	
Appropriations for 1915..... 299,815	Estimates for 1916..... 298,215	
Appropriations for 1916..... 265,515	Estimates for 1917..... 288,735	
Appropriations for 1917..... 433,735	Estimates for 1918..... 291,515	
Appropriations for 1918..... 291,515	Estimates for 1919..... 417,075	
Appropriations for 1919..... 417,075	Estimates for 1920..... 435,735	
<i>Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).</i>		
GENERAL EXPENSES—BUREAU OF SOILS.		
1 clerk, \$1,000 per annum. 1 clerk, \$900 per annum.		
Total for Bureau of Soils.....	\$509,895.00	\$491,235.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<b>BUREAU OF ENTOMOLOGY.</b>		
<i>Salaries, Bureau of Entomology—</i>		
(1) One entomologist, who shall be chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Apr. 14, 1896, vol. 29, p. 100, sec. 1; Apr. 23, 1904, vol. 33, p. 276, sec. 1; Oct. 1, 1918, vol. 40, p. 993, sec. 1</i> ) -----	\$4,500.00	
(2) One chief clerk and executive assistant ( <i>same acts</i> ) -----	2,250.00	
(3) One administrative assistant ( <i>same acts</i> ) -----	2,250.00	
(4) One editor ( <i>same acts</i> ) -----	2,250.00	
(5) One financial clerk ( <i>same acts</i> ) -----	1,800.00	
(6) Four clerks, class 4 ( <i>same acts</i> ) -----	7,200.00	
(7) Seven clerks, class 3 (increase of 1 by transfer from lump fund for general administrative expenses) ( <i>same acts</i> ) -----	11,200.00	
(8) Thirteen clerks, class 2 (increase of 1 by transfer from lump fund for truck crop and stored product insects) ( <i>same acts</i> ) -----	18,200.00	
(9) Seventeen clerks, class 1 (increase of 3 by transfer of 1 each from lump funds for deciduous fruit insects, southern field crop insects, and general administrative expenses) ( <i>same acts</i> ) -----	20,400.00	
(10) Eight clerks, at \$1,000 each ( <i>same acts</i> ) -----	8,000.00	
(11) Five clerks, at \$900 each ( <i>same acts</i> ) -----	4,500.00	
(12) Two clerks, at \$840 each ( <i>same acts</i> ) -----	1,680.00	
(13) One insect delineator (by transfer from lump fund for southern field crop insects) ( <i>same acts</i> ) -----	1,600.00	
(14) Two insect delineators, at \$1,400 each (by transfer of 1 each from lump funds for deciduous fruit insects and truck crop and stored product insects) ( <i>same acts</i> ) -----	2,800.00	
(15) Two entomological draftsmen, at \$1,400 each ( <i>same acts</i> ) -----	2,800.00	
(16) One entomological draftsman ( <i>same acts</i> ) -----	1,080.00	
(17) One photographer (by transfer from lump fund for southern field crop insects) ( <i>same acts</i> ) -----	1,200.00	
(18) Four foremen, at \$1,080 each ( <i>same acts</i> ) -----	4,320.00	
(19) One entomological preparator ( <i>same acts</i> ) -----	1,000.00	
(20) Four entomological preparators, at \$840 each ( <i>same acts</i> ) -----	3,360.00	
(21) Eight entomological preparators, at \$720 each ( <i>same acts</i> ) -----	5,760.00	
(22) Seven entomological preparators, at \$600 each ( <i>same acts</i> ) -----	4,200.00	
(23) One laborer (by transfer from lump fund for forest insects) ( <i>same acts</i> ) -----	1,080.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Entomology—Continued.</i>		
(24) Two messengers or laborers, at \$900 each ( <i>R. S., p. 87, secs. 520–523; acts Apr. 14, 1896, vol. 29, p. 100, sec. 1; Apr. 23, 1904, vol. 33, p. 276, sec. 1; Oct. 1, 1918, vol. 40, p. 993, sec. 1</i> ) -----	\$1,800.00	
(25) One messenger or laborer ( <i>same acts</i> ) -----	840.00	
(26) Three messengers or laborers, at \$720 each ( <i>same acts</i> ) -----	2,160.00	
(27) Six messenger boys, at \$480 each ( <i>same acts</i> ) -----	2,880.00	
(28) One messenger boy ( <i>same acts</i> ) -----	360.00	
(29) One mechanic ( <i>same acts</i> ) -----	1,080.00	
(30) One mechanic ( <i>same acts</i> ) -----	900.00	
(31) One mechanic ( <i>same acts</i> ) -----	840.00	
(32) One gardener ( <i>same acts</i> ) -----	600.00	
(33) One laborer ( <i>same acts</i> ) -----	600.00	
(34) One laborer ( <i>same acts</i> ) -----	540.00	
(35) One laborer ( <i>same acts</i> ) -----	480.00	
(36) One laborer ( <i>same acts</i> ) -----	420.00	
(37) Two charwomen, at \$480 each ( <i>same acts</i> ) -----	960.00	
(38) Three charwomen, at \$240 each ( <i>same acts</i> ) -----	720.00	
	\$128,610.00	\$115,330.00
Appropriations for 1910..... \$29,280   Estimates for 1911..... \$29,280		
Appropriations for 1911..... 29,280   Estimates for 1912..... 60,130		
Appropriations for 1912..... 60,130   Estimates for 1913..... 53,630		
Appropriations for 1913..... 53,750   Estimates for 1914..... 62,660		
Appropriations for 1914..... 60,960   Estimates for 1915..... 68,150		
Appropriations for 1915..... 69,050   Estimates for 1916..... 69,050		
Appropriations for 1916..... 69,530   Estimates for 1917..... 99,180		
Appropriations for 1917..... 99,180   Estimates for 1918..... 103,900		
Appropriations for 1918..... 102,180   Estimates for 1919..... 115,330		
Appropriations for 1919..... 115,330   Estimates for 1920..... 128,610		
NOTE.—Apparent increase, \$13,280; no actual increase, as follows:		
<i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced.</i>		
1 clerk, class 3, from general administrative expenses..... \$1,600		
1 clerk, class 2, from truck crop and stored product insects..... 1,400		
3 clerks, class 1, 1 each from deciduous fruit insects, southern field crop insects, and general administrative expenses..... 3,600		
1 insect delineator, from southern field crop insects..... 1,600		
2 insect delineators, at \$1,400 each, 1 each from deciduous fruit insects and truck crop and stored product insects..... 2,800		
1 photographer, from southern field crop insects..... 1,200		
1 laborer, from forest insects..... 1,080		
Apparent increase..... 13,280		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Entomology—Continued.</i>		
SUPPLEMENTAL ESTIMATE.		
<i>Promotions:</i>		
(39) 1 entomologist, who shall be chief of bureau, \$4,500 to \$5,000-----	\$500	
(The chief of the Bureau of Entomology has been in the service of the department nearly 40 years and was promoted to his present salary on July 1, 1911. The work of the bureau is constantly growing in importance and the increase recommended is fully warranted. If allowed, it will place the compensation of this officer on a parity with that received by the chiefs of other scientific bureaus in the department having like responsibilities.)		
(40) 1 entomological draftsman, \$1,080 to \$1,200-----	120	
(The present salary of this employee is exceedingly small in comparison with the technical character of the work performed, and the promotion recommended is fully warranted.)		
(41) 4 entomological preparators, \$840 to \$1,000 each-----	640	
(These employees are required to have a knowledge of the anatomy of various insects and must be skilled in preparing and mounting them for preservation and further study. The present salary is wholly inadequate for this character of work and unless the promotions recommended are allowed, it will be impossible to retain their services.)		
(42) 8 entomological preparators, \$720 to \$900 each-----	1,440	
(See preceding note.)		
(43) 1 messenger or laborer, \$840 to \$900-----	60	
(This promotion is recommended in order that the salary of this position may conform to the minimum salary recommended for messengers and laborers, as set forth in the general note regarding minimum salaries.)		
<i>New places:</i>		
(44) 2 executive clerks, at \$1,980 each-----	3,960	
(These places are recommended to provide promotions for two clerks of class 4. One of these employees is in charge of the auditing work of the bureau, while the other acts as purchasing agent and accountant in the field. These employees possess a thorough knowledge of the laws relating to governmental accounts and the rules governing departmental procedure. They have been in the service of the department 6 and 12 years, respectively. If allowed, these new places will also make possible the promotion of 2 clerks from \$1,600 to \$1,800. These employees act as librarian and property clerk of the bureau, have service records of 14 and 11 years, and were last promoted on Aug. 10, 1912, and July 1, 1913, respectively. As indicated under item 48, the 2 \$1,600 places will be dropped.)		
(45) 3 clerks, class 2-----	4,200	
(These places and the 5 clerks, class 1, immediately following, are submitted in lieu of 5 clerks, at \$900 each, and 2 clerks, at \$840 each, dropped as below. This readjustment will result in a net gain of 1 clerical place on the statutory roll of the bureau. The work of the bureau has greatly increased and additional help is absolutely necessary. If allowed, these places will be filled by original appointments, or by the transfer of clerks from the lump-sum appropriations. Efficient clerical help can not be retained at salaries of \$900 and \$840 per annum, and these places are of no value to the bureau.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Entomology—Continued.</i>		
<i>New places—Continued.</i>		
(46) 5 clerks, class 1 . . . . .	\$6, 000	
(See preceding note.)		
(47) 5 messengers or laborers, at \$900 each . . . . .	4, 500	
(These places are submitted in lieu of 3 messengers or laborers, at \$720 each, 1 laborer, \$540, and 1 laborer, \$480, dropped as below. Three of these places will provide promotions for laborers now receiving \$720 per annum who have performed highly efficient service, while 2 will be filled by original appointments. It is impossible at the present time to secure the services of men of mature years at salaries of \$540 and \$480, as considerably higher salaries can be commanded outside of the Government service.)	———	\$21, 420
<i>Places dropped:</i>		
(48) 2 clerks, class 3 . . . . .	3, 200	
(See note under item 44.)		
(49) 5 clerks, at \$900 each . . . . .	4, 500	
(See note under item 45.)		
(50) 2 clerks, at \$840 each . . . . .	1, 680	
(See note under item 45.)		
(51) 3 messengers or laborers, at \$720 each . . . . .	2, 160	
(See note under item 47.)		
(52) 1 laborer . . . . .	540	
(See note under item 47.)		
(53) 1 laborer . . . . .	480	
(See note under item 47.)		
(54) 4 foremen, at \$1,080 each . . . . .	4, 320	
(These places and those which follow are recommended dropped, as it is impossible to secure competent help at the salaries indicated. Most of the positions are now vacant or filled by unsatisfactory temporary appointees.)		
(55) 7 entomological preparators, at \$600 each . . . . .	4, 200	
(See preceding note.)		
(56) 1 messenger boy . . . . .	360	
(See preceding note.)		
(57) 1 mechanic . . . . .	1, 080	
(See preceding note.)		
(58) 1 mechanic . . . . .	900	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Entomology—Continued.</i>		
<i>Places dropped—Continued.</i>		
(59) 1 mechanic----- \$840 (See preceding note.)		
(60) 1 gardener----- 600 (See preceding note.)		
(61) 1 laborer----- 600 (See preceding note.)		
(62) 1 laborer----- 420 (See preceding note.)	----- \$25, 880	
Net decrease-----	4, 460	

*Changes in title:*

- (63) 1 chief clerk and executive assistant, \$2,250, to 1 chief clerk, \$2,250.

(This change is recommended in order that the title of the position may conform to the designation of similar officers in other bureaus of the department.)

- (64) 1 administrative assistant, \$2,250, to 1 executive clerk, \$2,250.

(This change is recommended in order that the title of the position may clearly indicate the character of work performed.)

*General Expenses, Bureau of Entomology—*

- (65) For the promotion of economic entomology; for investigating the history and the habits of insects injurious and beneficial to agriculture, horticulture, arboriculture, and the study of insects affecting the health of man and domestic animals, and ascertaining the best means of destroying those found to be injurious; for collating, digesting, reporting, [and] illustrating, and demonstrating the results of such investigations *independently and in cooperation with other branches of the department*; for salaries and the employment of labor in the city of Washington and elsewhere, rent outside of the District of Columbia, freight, express charges, official traveling expenses, office fixtures, supplies, apparatus, telegraph and telephone service, gas, and electric current, in connection with the following investigations (*acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; Oct. 1, 1918, vol. 40, pp. 993-994, sec. 1*):

NOTE.—The changes in language in the above paragraph are recommended in order to provide specific authority to conduct extension work under the various general expense items of the Bureau of Entomology. The only authority for demonstration work specifically provided under any of the items of this bureau is that contained in the bee-culture paragraph.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Entomology—Continued.*

(66) For investigations of insects affecting deciduous fruits, orchards, vineyards, and nuts, [§93,380] \$95,780: *Provided*, That \$9,600 of said sum shall be available for the investigation of insects affecting the pecan and method of control of same (*acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; Oct. 1, 1918, vol. 40, pp. 993-994, sec. 1*) ----- \$95,780.00

NOTE.—There is an apparent increase in this item of \$2,400, but taking into consideration the transfer to the statutory roll of 1 insect delineator at \$1,400 and 1 clerk of class 1, amounting to \$2,600, the actual increase is \$5,000, which amount is needed in connection with the campaign against the Japanese beetle, a dangerous insect pest of orchard and other fruits, recently imported from Japan. Surveys during the present season have shown the insect to be more or less abundant over some 10,000 acres, as compared with the known infestation of 600 or 700 acres last fall. Furthermore, the beetles have been found in sparse numbers over an area of approximately 25,000 acres. The additional \$5,000 requested will be used for the employment of men and the purchase of insecticides, and is necessary in order to carry out properly the work of eradication and prevention of spread.

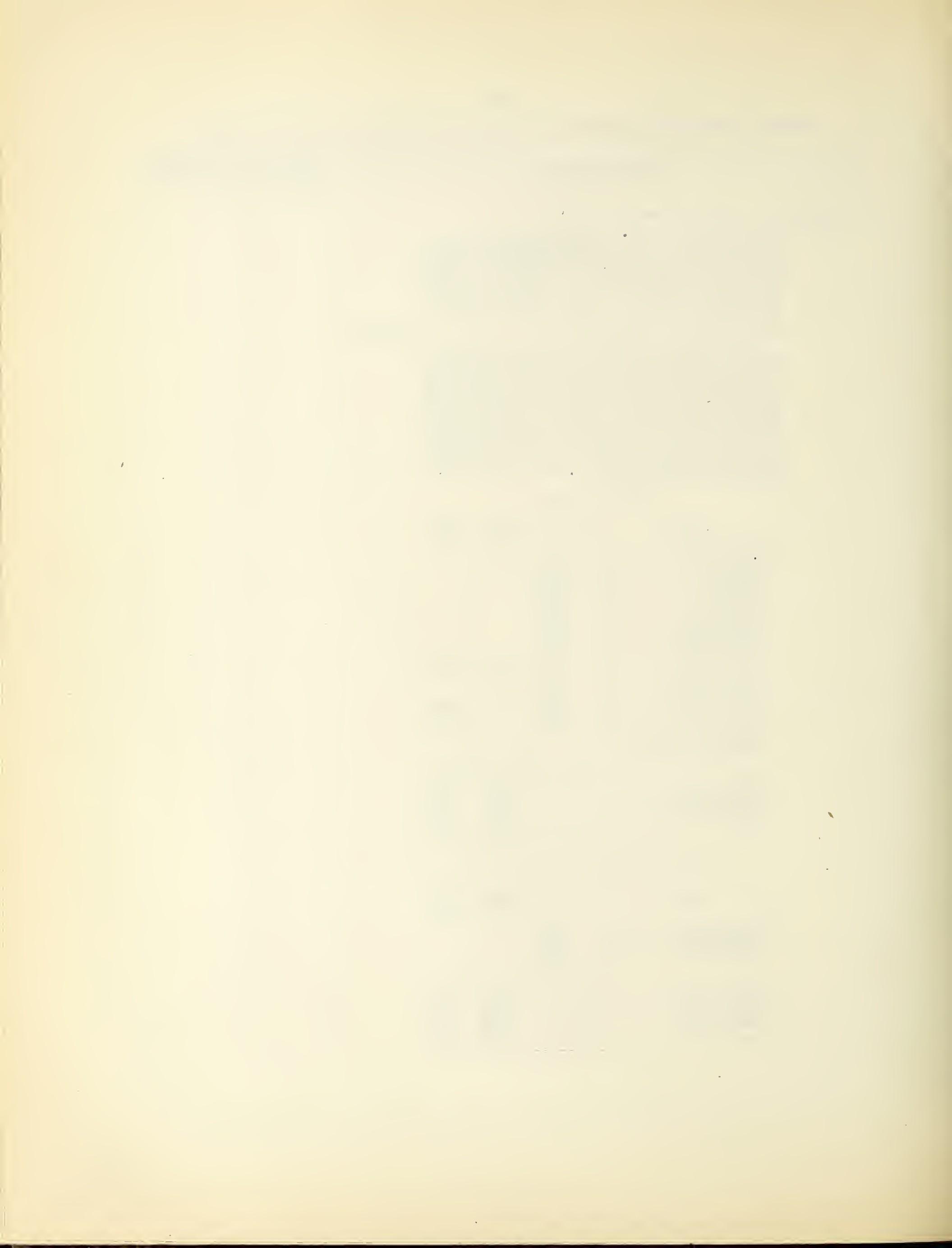
*Deciduous fruit insects.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Entomologist in charge.....per annum..	\$4,000.00	1	--
Entomologist in charge.....do.....	3,500.00	--	1
Entomologist.....do.....	2,500.00	1	--
Entomologist.....do.....	2,250.00	--	1
Mycoentomologist.....do.....	2,500.00	1	--
Mycoentomologist.....do.....	2,250.00	--	1
Insect physiologist.....do.....	2,250.00	1	--
Insect physiologist.....do.....	2,000.00	--	1
Scientific assistant.....do.....	2,200.00	1	1
Entomological assistants.....do.....	2,250.00	--	--
Entomological assistants.....do.....	2,000.00	2	2
Entomological assistant.....do.....	2,000.00	1	1
Entomological assistant.....do.....	1,920.00	2	--
Entomological assistants.....do.....	1,800.00	8(1 pt. time)	10 (1 temp.; 1 part time)
Entomological assistants.....do.....	1,740.00	2	--
Entomological assistants.....do.....	1,600.00	6 (2 new)	8
Entomological assistants.....do.....	1,500.00	4	4
Entomological assistants.....do.....	1,400.00	4 (2 new)	3 (1 temp.)
Entomological assistants.....do.....	1,200.00	1	3 (2 temp.)
Insect delineator †.....do.....	1,400.00	--	1
Clerk †.....do.....	1,200.00	--	1 (temp.)
Field assistants, collaborators, entomological preparators, \$900 to \$12.....do.....		15	11
		50	49
Salaries.....		\$62,980.00	\$48,680.17
Other objects of expenditure:			
Traveling expenses.....		8,000.00	7,141.99
Equipment and material.....		4,500.00	4,349.91
Miscellaneous items.....		10,700.00	10,555.80
Total.....		86,180.00	70,728.87

† Recommended for transfer to statutory roll in estimates for 1920.

*Pecan insects.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Entomological assistant.....per annum..	\$2,250.00	1	--
Entomological assistant.....do.....	2,000.00	--	1
Entomological assistant.....do.....	1,800.00	1	--
Entomological assistant.....do.....	1,600.00	--	1
Scientific assistant.....do.....	1,500.00	1	--
		3	3
Salaries.....		\$5,550.00	\$4,216.66
Other objects of expenditure:			
Traveling expenses.....		1,400.00	1,218.01
Equipment and material.....		900.00	837.80
Miscellaneous items.....		1,750.00	1,659.31
Total.....		9,600.00	7,931.78



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Entomology—Continued.*

- (67) For investigations of insects affecting cereal and forage crops, including a special investigation of the Hessian fly and the chinch bug, [§122,060] \$147,060, of which sum \$10,000 shall be immediately available (acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; Oct. 1, 1918, vol. 40, pp. 993-994, sec. 1) - \$147,060.00

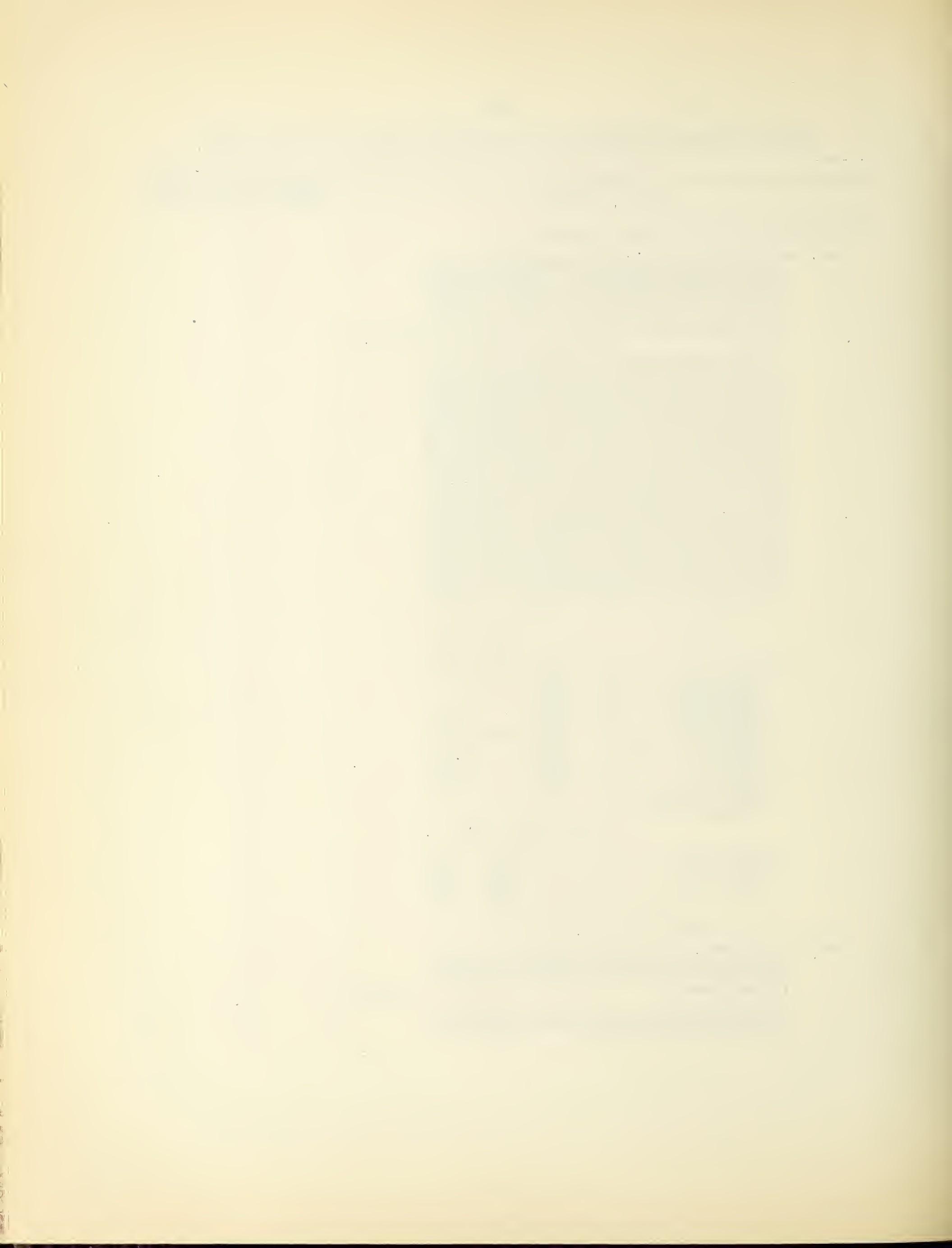
NOTE.—There is an increase in this item of \$25,000 (\$10,000 to be made immediately available). This amount is necessary in order to promptly institute investigations looking to the control of the European corn borer. This insect, a boring caterpillar, is native of central Europe, west-central and northern Asia, and Japan. It is the most dangerous insect enemy of corn which has ever appeared in this country. At present the insect infests an area somewhat exceeding 300 square miles in the immediate vicinity of Boston, Mass. It has already inflicted serious injury to the sweet-corn industry of that region, and, should the pest succeed in reaching the great corn belt of the country, the annual losses from its work would undoubtedly amount to many millions of dollars. In Hungary it has been known to destroy one-fourth of the entire crop in a single year. The insect attacks many plants, besides corn, including hops, hemp, garden crops, and native wild grasses and weeds. Strong efforts will be made to prevent its spread into contiguous territory and, if possible, to exterminate it entirely throughout its present abode. It will be necessary to have at least \$10,000 of this amount available in the early spring in order to complete the work of cleaning up the infested premises during the short period of time available for that work—between the breaking up of winter and the actual advent of spring—after which nothing further can be done in the way of control work until the following fall. It is the intention to place in the field as large a force of assistants as possible for a few weeks in order to conduct a vigorous campaign for the cleaning up of infested land.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Entomologist in charge .....	\$3,000.00	1	1
Specialist in insect diseases.....do.	2,250.00	1(part time)	1(part time)
Entomological assistant.....do.	2,500.00	1	-
Entomological assistant.....do.	2,300.00	-	1
Entomological assistants.....do.	2,250.00	2	-
Entomological assistants.....do.	2,000.00	4	3
Entomological assistants.....do.	2,200.00	4	6 (2 temp.)
Entomological assistants.....do.	1,920.00	4	-
Entomological assistants.....do.	1,800.00	7(1 pt.time)	11(1 pt. time)
Scientific assistants.....do.	1,600.00	8 (2 new).	6
Scientific assistants.....do.	1,400.00	10	14 (4 temp.)
Scientific assistants.....do.	1,500.00	-	1 (temp.)
Scientific assistants.....do.	1,300.00	-	1 (temp.)
Scientific assistants.....do.	1,380.00	2	-
Scientific assistants.....do.	1,200.00	2	14 (7 temp.)
Scientific assistants.....do.	1,000.00	1	3 (2 temp.)
Clerk *.....do.	1,200.00	-	1
Collaborators, field assistants, and entomological prepara- tors, \$900 to \$12.....do.		47	36
		93	99
Salaries.....	\$100,800.00		\$79,953.95
Other objects of expenditure:			
Traveling expenses.....	20,000.00		16,129.73
Equipment and material.....	5,000.00		4,105.66
Miscellaneous items.....	21,260.00		14,738.06
Total.....	147,060.00		114,927.40

\* Transferred to statutory roll in Agricultural act for 1919.

- (68) For investigations of insects affecting southern field crops, including insects affecting cotton, tobacco, rice, sugar cane, and so forth, and the cigarette beetle and Argentine ant [§89,400] (same acts) - 85,400.00

NOTE.—There is an apparent decrease in this item of \$4,000, due to the transfer to the statutory roll of 1 insect delineator at \$1,600, 1 photographer at \$1,200, and 1 clerk of class 1.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Entomology—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Entomologist in charge.....per annum.	\$4,000.00	1	..
Entomologist in charge.....do.	3,500.00	..	1
Entomologist.....do.	3,000.00	1	..
Entomologist.....do.	2,750.00	..	1
Entomologist.....do.	2,500.00	1	1
Entomological assistant.....do.	2,300.00	1	1
Entomological assistants.....do.	2,250.00	3 (2 part time)	..
Entomological assistants.....do.	2,000.00	1	5 (2 part time, 1 temp.)
Entomological assistants.....do.	1,920.00	2	..
Entomological assistants.....do.	1,800.00	2 (1 part time)	6 (2 temp., 1 part time)
Scientific assistant.....do.	1,600.00	1	1
Scientific assistants.....do.	1,400.00	4	5 (1 temp.)
Insect delineator †.....do.	1,600.00	..	1
Cotton entomologists.....do.	1,500.00	1	2 (1 temp.)
Cotton entomologists.....do.	1,200.00	6	10 (4 temp.)
Photographer †.....do.	1,200.00	..	1
Clerk †.....do.	1,200.00	..	1
Collaborators, field assistants, and entomological preparators, \$900 to \$12.....do.	..	30	37
		54	73
Salaries.....		\$48,690.00	\$52,001.66
Other objects of expenditure:			
Traveling expenses.....	15,000.00	13,257.71	
Equipment and material.....	4,000.00	2,687.44	
Miscellaneous items.....	17,710.00	16,063.47	
Total.....	85,400.00	84,010.28	

† Recommended for transfer to statutory roll in estimates for 1920.

- (69) For investigations of insects affecting forests [§\$49,870] (*Acts June 16, 1880, vol. 21, p. 259, Sec. 1; June 3, 1902, vol. 32, p. 298, Sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, Secs. 1-3; June 30, 1906, vol. 34, p. 688, Sec. 1; Oct. 1, 1918, vol. 40, pp. 993-994, Sec. 1*) ----- \$48,790.00

NOTE.—There is an apparent decrease in this item of \$1,080, due to the transfer of an unskilled laborer, at \$1,080, to the statutory roll.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Forest entomologist.....per annum.	\$3,500.00	1	1
Entomological assistants.....do.	2,500.00	2	..
Entomological assistants.....do.	2,200.00	..	2
Specialists.....do.	2,250.00	5	..
Specialists.....do.	2,000.00	..	5
Specialists.....do.	1,920.00	1	..
Specialists.....do.	1,800.00	2	1
Specialists.....do.	1,600.00	..	2
Assistants.....do.	1,740.00	1	1
Assistants.....do.	1,600.00	1	1 (temp.)
Assistants.....do.	1,400.00	..	1
Scientific assistants.....do.	1,400.00	..	1 (temp.)
Scientific assistants.....do.	1,380.00	2	..
Scientific assistants.....do.	1,200.00	2	6 (2 temp.)
Scientific assistants.....do.	1,300.00	1	1
Entomological ranger.....do.	1,200.00	4	..
Entomological ranger.....do.	1,080.00	..	4
Unskilled laborer †.....do.	1,080.00	..	1
Clerk *.....do.	900.00	..	1
Temporary assistants and collaborators, \$900 to \$12.....do.	..	5	7
		27	35
Salaries.....		\$39,895.00	\$38,359.57
Other objects of expenditure:			
Traveling expenses.....	4,750.00	4,740.50	
Equipment and material.....	800.00	809.46	
Miscellaneous items.....	3,345.00	3,381.88	
Total.....	48,790.00	47,291.41	

† Recommended for transfer to statutory roll in estimates for 1920.

\* Transferred to statutory roll in Agricultural act for 1919.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Entomology—Continued.*

- (70) For investigations of insects affecting truck crops, including insects affecting the potato, sugar beet, cabbage, onion, tomato, beans, peas, and so forth, and insects affecting stored products [§67,760] (acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902; vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; Oct. 1, 1918, vol. 40, pp. 993-994, sec. 1) -- \$84,960.00

NOTE.—There is an apparent increase in this item of \$17,200, but taking into consideration the transfer to the statutory roll of 1 insect delineator at \$1,400 and 1 clerk of class 2, amounting to \$2,800, the actual increase is \$20,000. This merely involves the transfer of the sweet-potato weevil item from the Miscellaneous section of the bill and its inclusion under the item for "truck-crop and stored-product insect investigations." It is clear that the language of the latter item is broad enough to cover the sweet-potato weevil work, and hence the language in the Miscellaneous section is omitted entirely.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Entomologist in charge.....per annum..	\$3,750.00	1	--
Entomologist in charge.....do.....	3,500.00	--	1
Entomologist.....do.....	2,750.00	1	1
Entomological assistant.....do.....	2,500.00	1	1
Entomological assistant.....do.....	2,250.00	1	--
Entomological assistants.....do.....	2,000.00	1	2
Entomological assistant.....do.....	2,000.00	1	1
Entomological assistants.....do.....	1,800.00	1 (new)	2 (temp.)
Entomological assistants.....do.....	1,600.00	4 (1 new)	5 (2 temp.)
Entomological assistants.....do.....	1,500.00	1	--
Entomological assistants.....do.....	1,400.00	8 (7 new)	5 (4 temp.)
Expert.....do.....	1,800.00	1 (part time)	1 (part time)
Scientific assistants.....do.....	1,800.00	2	2
Scientific assistants.....do.....	1,600.00	4 (new)	--
Scientific assistants.....do.....	1,400.00	4 (new)	--
Scientific assistants.....do.....	1,200.00	5 (4 new)	5 (4 temp.)
Scientific assistants.....do.....	1,000.00	4 (2 new)	3 (1 temp.)
Clerk*.....do.....	1,600.00	--	1
Clerk†.....do.....	1,400.00	--	1
Insect delineator †.....do.....	1,400.00	--	1
Collaborators, field assistants, and entomological preparators, \$900 to \$12.....do.....		30	22
		70	55
Salaries.....		\$62,250.00	\$36,352.22
Other objects of expenditure:			
Traveling expenses.....		8,000.00	2,778.71
Equipment and material.....		4,000.00	696.44
Miscellaneous items.....		10,710.00	4,093.40
Total.....		84,960.00	43,920.77

\*Transferred to statutory roll in Agricultural act for 1919.

†Recommended for transfer to statutory roll in estimates for 1920.

- (71) For investigations and demonstrations in bee culture (*same acts*) ----- 35,000.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Apiculturist in charge.....per annum..	\$3,750.00	1	--
Apiculturist in charge.....do.....	3,500.00	--	1
Apicultural assistant.....do.....	2,750.00	1	--
Apicultural assistant.....do.....	2,500.00	--	1
Apicultural assistant.....do.....	2,000.00	3 (new)	1 (temp.)
Apiculturist.....do.....	1,800.00	1 (new)	--
Expert in charge of field work.....do.....	1,800.00	1	1
Specialist.....do.....	1,800.00	1	1
Apicultural assistants.....do.....	1,600.00	2 (1 new)	3 (2 temp.)
Apicultural assistants.....do.....	1,400.00	2 (1 new)	2 (1 temp.)
Collaborators and minor clerks, \$900 to \$12.....do.....		8	10
		20	20
Salaries.....		\$24,900.00	\$15,699.44
Other objects of expenditure:			
Stationery.....		500.00	388.99
Traveling expenses.....		4,000.00	1,017.84
Equipment and material.....		3,000.00	1,059.65
Miscellaneous items.....		2,600.00	1,430.36
Total.....		35,000.00	19,596.28



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Entomology—Continued.*

(72) For investigations of insects affecting tropical and subtropical fruits, including insects affecting the orange, lemon, grapefruit, mango, and so forth (*acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; Oct. 1, 1918, vol. 40, pp. 993-994, sec. 1*) ----- \$16, 500.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>			
Entomologist in charge.....per annum..	\$4,000.00	Number. 1 (part time)	Number. 1 (part time)
Entomological assistant .....	2,500.00	1	-
Entomological assistant .....	2,250.00	-	1
Entomological assistant .....	2,200.00	1	1
Scientific assistants.....do.....	1,690.00	2	2
Gardener *.....do.....	600.00	1	1
		6	6
Salaries.....	\$10,500.00		\$8,396.67
<b>Other objects of expenditure:</b>			
Traveling expenses.....	2,000.00		1,444.23
Equipment and material.....	1,000.00		968.61
Miscellaneous items.....	3,000.00		2,321.60
<b>Total.....</b>	<b>16,500.00</b>		<b>13,131.14</b>

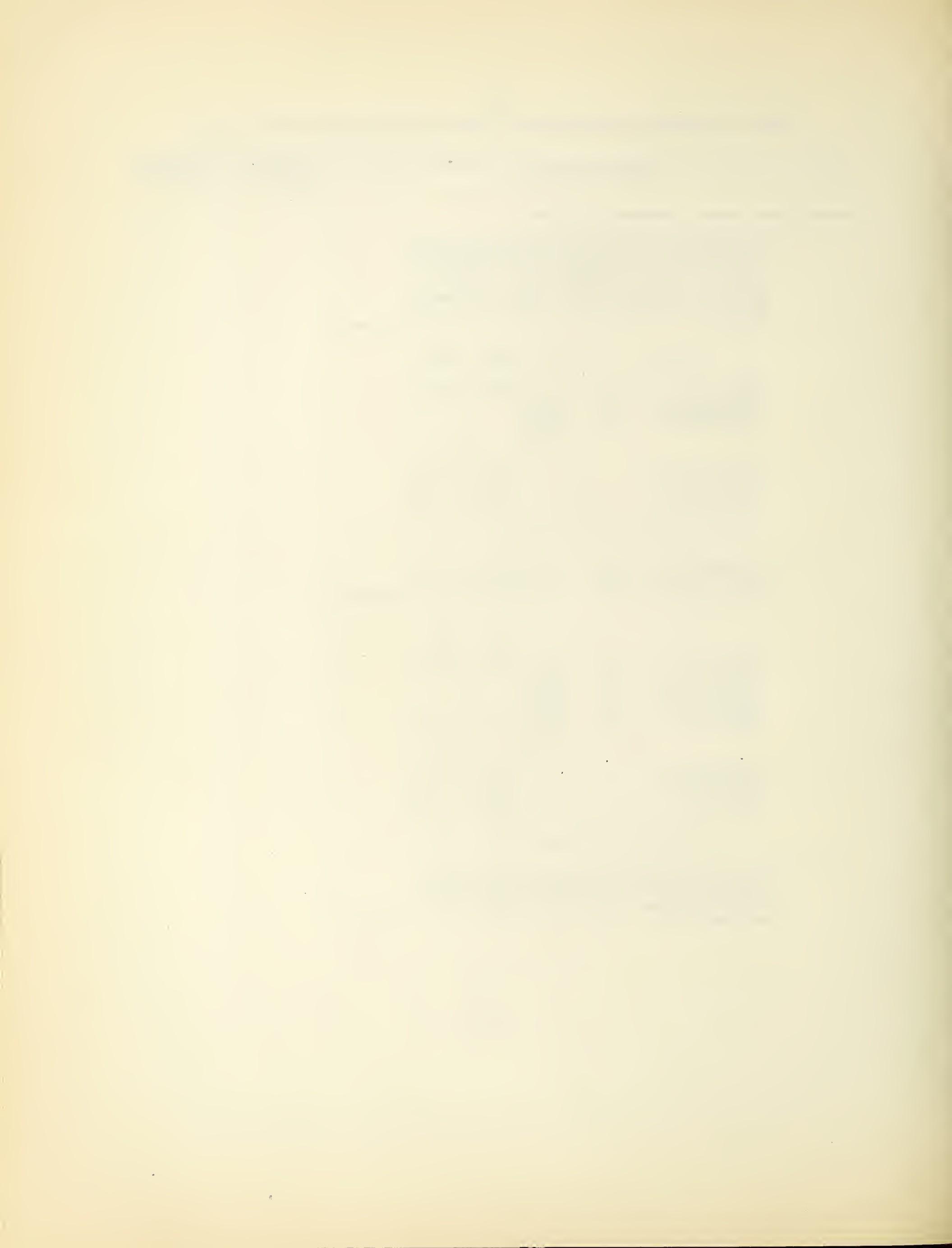
\* Transferred to statutory roll in Agricultural act for 1919.

(73) For investigations and control, in cooperation with the Federal Horticultural Board, of the Mediterranean and other fruit flies (*same acts*) ----- 32, 000.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>			
Entomologist in charge.....per annum..	\$4,000.00	Number. 1 (part time)	Number. 1 (part time)
Assistant entomologist.....do.....	2,500.00	1	1
Entomological inspector.....do.....	1,920.00	1	1
Entomological inspectors.....do.....	1,800.00	2	2
Specialist.....do.....	1,800.00	1	1
Quarantine inspector.....do.....	1,800.00	1	1
Entomological assistant.....do.....	1,800.00	1 (part time)	1 (part time)
Scientific assistants.....do.....	1,200.00	2	2
Clerk *.....do.....	1,200.00	-	1
Collaborators.....do.....	12.00	4	5 (1 temp.)
		14	16
Salaries.....	\$17,320.00		\$15,388.34
<b>Other objects of expenditure:</b>			
Traveling expenses.....	5,000.00		2,233.39
Equipment and material.....	1,000.00		768.28
Miscellaneous items.....	8,680.00		4,817.56
<b>Total.....</b>	<b>32,000.00</b>		<b>23,207.57</b>

\* Transferred to statutory roll in Agricultural act for 1919.

(74) For investigations, identification, and systematic classification of miscellaneous insects, including the study of insects affecting the health of man and domestic animals, household insects, and the importation and exchange of useful insects (*same acts*) ----- 52, 330.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Bureau of Entomology—Continued.</i>		

Employees.	Rate.	Estimated, 1920.	Expended, 1918.	
Salaries:				
Entomologist in charge.....per annum..	\$3,000.00	1(part time)	Number.	
Entomologist in charge.....do.....	2,750.00	..	1(part time)	
Entomologists.....do.....	2,500.00	1	2 (1 temp.)	
Entomological assistants.....do.....	2,250.00	4	3 (1 temp.; 1 pt. time)	
Entomological assistants.....do.....	2,000.00	4	8 (1 temp.)	
Editor *.....do.....	2,250.00	..	1	
Experts.....do.....	1,800.00	..	3 (2 temp.; 1 pt. time)	
Clerk *.....do.....	1,800.00	..	1	
Scientific assistants.....do.....	1,740.00	4	..	
Scientific assistants.....do.....	1,600.00	1 (new)	5 (1 temp.)	
Scientific assistants.....do.....	1,400.00	1 (new)	1 (temp.)	
Collaborators, field assistants, and entomological prepara- tors, \$900 to \$12.....do.....	.....	6	10	
		22	35	
Salaries.....		\$35,010.00	\$38,694.96	
Other objects of expenditure:				
Traveling expenses.....	5,000.00		3,992.35	
Equipment and material.....	2,000.00		1,248.23	
Miscellaneous items.....	10,320.00		5,250.91	
Total.....		52,330.00	49,186.45	

\* Transferred to statutory roll in Agricultural act for 1919.

- (75) For general administrative expenses connected with above lines of investigation, and for miscellaneous expenses incident thereto [§9,000] (acts June 16, 1880, vol. 21, p. 259, sec. 1; June 3, 1902, vol. 32, p. 298, sec. 1; Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; June 30, 1906, vol. 34, p. 688, sec. 1; Oct. 1, 1918, vol 40, pp. 993-994, sec. 1) ... \$5,480.00

NOTE.—There is an apparent decrease in this item of \$3,520, due to the transfer to the statutory roll of this bureau of 1 clerk of class 3 and 1 clerk of class 1, and the transfer of 1 watchman at \$720 to the statutory roll of the Secretary's office.

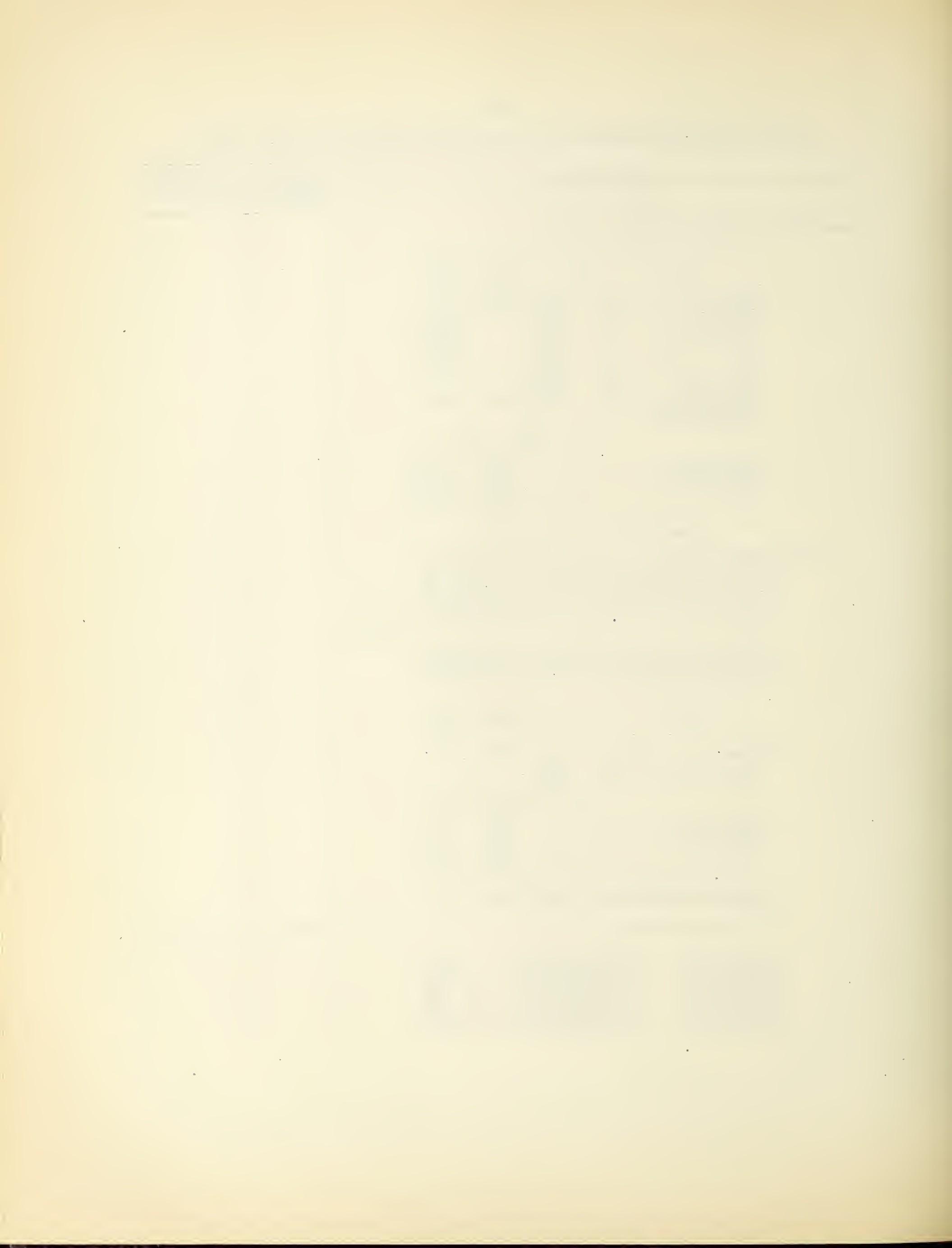
Employees.	Rate.	Estimated, 1920.	Expended, 1918.	
Salaries:				
Extension entomologist.....per annum..	\$2,500.00	1 (new).	Number.	
Clerk*.....do.....	1,600.00	..	..	
Clerk*.....do.....	1,200.00	..	1	
Watchman†.....do.....	720.00	..	1	
		1	3	
Salaries.....		\$2,500.00	\$1,536.67	
Other objects of expenditure:				
Stationery.....	500.00		289.24	
Traveling expenses.....	500.00		145.16	
Equipment and material.....	500.00		355.21	
Miscellaneous items.....	1,480.00		240.42	
Total.....		5,480.00	2,566.70	

\*Recommended for transfer to statutory roll in estimates for 1920.

†Recommended for transfer to statutory roll of the office of the Secretary in estimates for 1920.

In all, for general expenses----- \$603,300.00 \$567,300.00

Appropriations for 1910.....	\$198,400	Estimates for 1911.....	\$197,900
Appropriations for 1911.....	202,900	Estimates for 1912.....	238,110
Appropriations for 1912.....	256,950	Estimates for 1913.....	258,450
Appropriations for 1913.....	328,750	Estimates for 1914.....	371,000
Appropriations for 1914.....	381,250	Estimates for 1915.....	447,970
Appropriations for 1915.....	450,370	Estimates for 1916.....	460,370
Appropriations for 1916.....	450,370	Estimates for 1917.....	446,150
Appropriations for 1917.....	464,650	Estimates for 1918.....	532,150
Appropriations for 1918.....	524,250	Estimates for 1919.....	557,300
Appropriations for 1919.....	567,300	Estimates for 1920.....	603,300



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																												
<i>General Expenses, Bureau of Entomology—Continued.</i>																																																																																														
<i>Statement of clerks employed in District of Columbia under lump-sum appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).</i>																																																																																														
GENERAL EXPENSES—BUREAU OF ENTOMOLOGY.																																																																																														
3 clerks, at \$1,600 each per annum. 1 clerk, \$1,512 per annum. 3 clerks, at \$1,400 each per annum. 1 stenographer and typewriter, \$1,260 per annum. 1 clerk, \$1,260 per annum. 1 stenographic clerk, \$1,200 per annum. 7 clerks, at \$1,200 each per annum. 1 clerk (typewriter), \$900 per annum. 1 minor clerk, \$900 per annum.																																																																																														
<i>Preventing Spread of Moths, Bureau of Entomology—</i>																																																																																														
(76) To enable the Secretary of Agriculture to meet the emergency caused by the continued spread of the gypsy and brown tail moths by conducting such experiments as may be necessary to determine the best methods of controlling these insects; by introducing and establishing the parasites and natural enemies of these insects and colonizing them within the infested territory; by establishing and maintaining a quarantine against further spread in such manner as is provided by the general nursery-stock law, approved August twentieth, nineteen hundred and twelve, as amended, entitled "An Act to regulate the importation of nursery stock and other plants and plant products, to enable the Secretary of Agriculture to establish and maintain quarantine districts for plant diseases and insect pests, to permit and regulate the movement of fruits, plants, and vegetables therefrom, and for other purposes," in cooperation with the authorities of the different States concerned and with the several State experiment stations, including rent outside of the District of Columbia, the employment of labor in the city of Washington and elsewhere, and all other necessary expenses (acts Mar. 3, 1905, vol. 33, pp. 1269, 1270, secs. 1-3; Oct. 1, 1918, vol. 40, p. 994, sec. 1) -----	\$304,050.00	\$304,050.00																																																																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding-bottom: 2px;">Employees.</th> <th style="text-align: left; padding-bottom: 2px;">Rate.</th> <th style="text-align: left; padding-bottom: 2px;">Estimated, 1920.</th> <th style="text-align: left; padding-bottom: 2px;">Expended, 1918.</th> </tr> </thead> <tbody> <tr> <td>Salaries:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Entomologist in charge.....per annum..</td> <td>\$3,750.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Entomologist in charge.....do.....</td> <td>3,500.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Assistants.....do.....</td> <td>3,250.00</td> <td>2</td> <td>2</td> </tr> <tr> <td>Assistants.....do.....</td> <td>3,000.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Entomological assistants.....do.....</td> <td>2,250.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Entomological assistants.....do.....</td> <td>2,000.00</td> <td>3 (1 new)</td> <td>4 (1 temp.)</td> </tr> <tr> <td>Entomological assistants.....do.....</td> <td>1,800.00</td> <td>2 (1 new)</td> <td>1</td> </tr> <tr> <td>Scientific assistants.....do.....</td> <td>1,600.00</td> <td>4 (1 new)</td> <td>3</td> </tr> <tr> <td>Scientific assistants.....do.....</td> <td>1,400.00</td> <td>12 (1 new)</td> <td>14 (3 temp.)</td> </tr> <tr> <td>Gipsy moth assistants.....do.....</td> <td>1,200.00</td> <td>11 (2 new)</td> <td>10 (1 temp.)</td> </tr> <tr> <td>Gipsy moth assistants.....do.....</td> <td>1,050.00</td> <td>3</td> <td>4 (1 temp.)</td> </tr> <tr> <td>Gipsy moth assistants.....do.....</td> <td>1,000.00</td> <td>3</td> <td>4 (1 temp.)</td> </tr> <tr> <td>Clerks*.....do.....</td> <td>1,000.00</td> <td>1</td> <td>2 (temp.)</td> </tr> <tr> <td>Collaborators.....do.....</td> <td>12.00</td> <td>6</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>48</td> <td>51</td> </tr> <tr> <td>Salaries.....</td> <td></td> <td>\$64,812.00</td> <td>\$59,118.01</td> </tr> <tr> <td>Other objects of expenditure:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Traveling expenses.....</td> <td></td> <td>33,000.00</td> <td>30,036.70</td> </tr> <tr> <td>Equipment and material.....</td> <td></td> <td>27,000.00</td> <td>25,895.80</td> </tr> <tr> <td>Miscellaneous items.....</td> <td></td> <td>179,238.00</td> <td>177,220.96</td> </tr> <tr> <td>Total.....</td> <td></td> <td>304,050.00</td> <td>292,271.47</td> </tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:				Entomologist in charge.....per annum..	\$3,750.00	1	1	Entomologist in charge.....do.....	3,500.00	1	1	Assistants.....do.....	3,250.00	2	2	Assistants.....do.....	3,000.00	1	1	Entomological assistants.....do.....	2,250.00	1	1	Entomological assistants.....do.....	2,000.00	3 (1 new)	4 (1 temp.)	Entomological assistants.....do.....	1,800.00	2 (1 new)	1	Scientific assistants.....do.....	1,600.00	4 (1 new)	3	Scientific assistants.....do.....	1,400.00	12 (1 new)	14 (3 temp.)	Gipsy moth assistants.....do.....	1,200.00	11 (2 new)	10 (1 temp.)	Gipsy moth assistants.....do.....	1,050.00	3	4 (1 temp.)	Gipsy moth assistants.....do.....	1,000.00	3	4 (1 temp.)	Clerks*.....do.....	1,000.00	1	2 (temp.)	Collaborators.....do.....	12.00	6	6			48	51	Salaries.....		\$64,812.00	\$59,118.01	Other objects of expenditure:				Traveling expenses.....		33,000.00	30,036.70	Equipment and material.....		27,000.00	25,895.80	Miscellaneous items.....		179,238.00	177,220.96	Total.....		304,050.00	292,271.47		
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Total for Bureau of Entomology-----	1,035,960.00	986,680.00																																																																																												



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<b>BUREAU OF BIOLOGICAL SURVEY.</b>		
<i>Salaries, Bureau of Biological Survey—</i>		
(1) One biologist, who shall be chief of bureau ( <i>R. S.</i> , p. 87, secs. 520–523; <i>acts Mar. 3, 1905, vol. 33, p. 877, sec. 1; Oct. 1, 1918, vol. 40, p. 994, sec. 1</i> ) -----	\$3, 500.00	
(2) One chief clerk and executive assistant ( <i>same acts</i> )-----	1, 800.00	
(3) One administrative assistant ( <i>same acts</i> )-----	2, 250.00	
(4) One executive assistant ( <i>same acts</i> )-----	1, 800.00	
(5) One financial clerk ( <i>same acts</i> )-----	1, 600.00	
(6) Three clerks, class 3 ( <i>same acts</i> )-----	4, 800.00	
(7) Six clerks, class 2 (increase of 1 by transfer from lump fund for food habits of birds and mammals) ( <i>same acts</i> )-----	8, 400.00	
(8) One clerk ( <i>same acts</i> )-----	1, 260.00	
(9) Ten clerks, class 1 (increase of 4 by transfer of 1 each from lump funds for food habits of birds and mammals, destroying noxious animals, biological investigations, and maintenance of mammal and bird reservations) ( <i>same acts</i> )-----	12, 000.00	
(10) One clerk (by transfer from lump fund for food habits of birds and mammals) ( <i>same acts</i> )-----	1, 100.00	
(11) One clerk ( <i>same acts</i> )-----	1, 080.00	
(12) Three clerks, at \$1,000 each ( <i>same acts</i> )-----	3, 000.00	
(13) Four clerks, at \$900 each ( <i>same acts</i> )-----	3, 600.00	
(14) One clerk ( <i>same acts</i> )-----	840.00	
(15) One clerk ( <i>same acts</i> )-----	720.00	
(16) One preparator ( <i>same acts</i> )-----	1, 200.00	
(17) One preparator ( <i>same acts</i> )-----	900.00	
(18) One messenger ( <i>same acts</i> )-----	720.00	
(19) One photographer ( <i>same acts</i> )-----	1, 300.00	
(20) One game warden ( <i>same acts</i> )-----	1, 200.00	
(21) Two messengers, messenger boys, or laborers, at \$480 each ( <i>same acts</i> )-----	960.00	
(22) One messenger boy ( <i>same acts</i> )-----	360.00	
(23) One laborer ( <i>same acts</i> )-----	600.00	
(24) Two charwomen, at \$240 each ( <i>same acts</i> )-----	480.00	
	\$55, 470.00	\$48, 170.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*Salaries, Bureau of Biological Survey—Continued.*

Appropriations for 1910.....	\$13,000	Estimates for 1911.....	\$15,400
Appropriations for 1911.....	15,400	Estimates for 1912.....	25,100
Appropriations for 1912.....	24,000	Estimates for 1913.....	25,100
Appropriations for 1913.....	25,100	Estimates for 1914.....	30,040
Appropriations for 1914.....	29,990	Estimates for 1915.....	31,590
Appropriations for 1915.....	32,790	Estimates for 1916.....	34,470
Appropriations for 1916.....	34,470	Estimates for 1917.....	44,030
Appropriations for 1917.....	44,030	Estimates for 1918.....	47,770
Appropriations for 1918.....	46,370	Estimates for 1919.....	48,260
Appropriations for 1919.....	48,170	Estimates for 1920.....	55,470

NOTE.—Apparent increase, \$7,300; no actual increase, as follows:

*Transfers from lump funds of this bureau, which funds have been correspondingly reduced.*

1 clerk, class 2, from food habits of birds and mammals.....	\$1,400
4 clerks, class 1, from food habits of birds and mammals, destroying noxious animals, biological investigations, and maintenance of mammal and bird reservations.....	4,800
1 clerk, from food habits of birds and mammals.....	1,100
Apparent increase.....	7,300

## SUPPLEMENTAL ESTIMATE.

*Promotions:*

(25) 3 clerks, \$900 to \$1,000 each .....	\$300
--	-------

(These promotions and those which follow are recommended in order that the salaries of the respective positions may conform to the minimum salary recommended for such positions, as set forth in the general note regarding minimum salaries.)

(26) 1 messenger, \$720 to \$900 .....	180
--	-----

(See preceding note.)

(27) 1 messenger boy, \$360 to \$480 .....	120
--	-----

(See preceding note.)

(28) 1 laborer, \$600 to \$900 .....	30
--------------------------------------	----

(See preceding note.)

*New place:*

(29) 1 clerk .....	1,560	\$2,460
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(This is a new place and is recommended in lieu of 1 clerk, \$840, and 1 clerk, \$720, dropped, as below. It is impossible to obtain competent clerks at \$840 and \$720. The services of a high-grade clerk are needed in connection with the greatly increased activities of the bureau. This change involves no increase in the amount provided for statutory salaries.)

*Places dropped:*

(30) 1 clerk .....	840
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(See preceding note.)

(31) 1 clerk .....	720	1,560
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(See preceding note.)

Net increase .....	900
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*Salaries, Bureau of Biological Survey—Continued.**Changes in title:*

- (32) 2 messengers, messenger boys, or laborers, at \$480 each, to 2 messenger boys, at \$480 each.

(These changes are recommended in order that the titles of the positions may clearly indicate the character of work performed.)

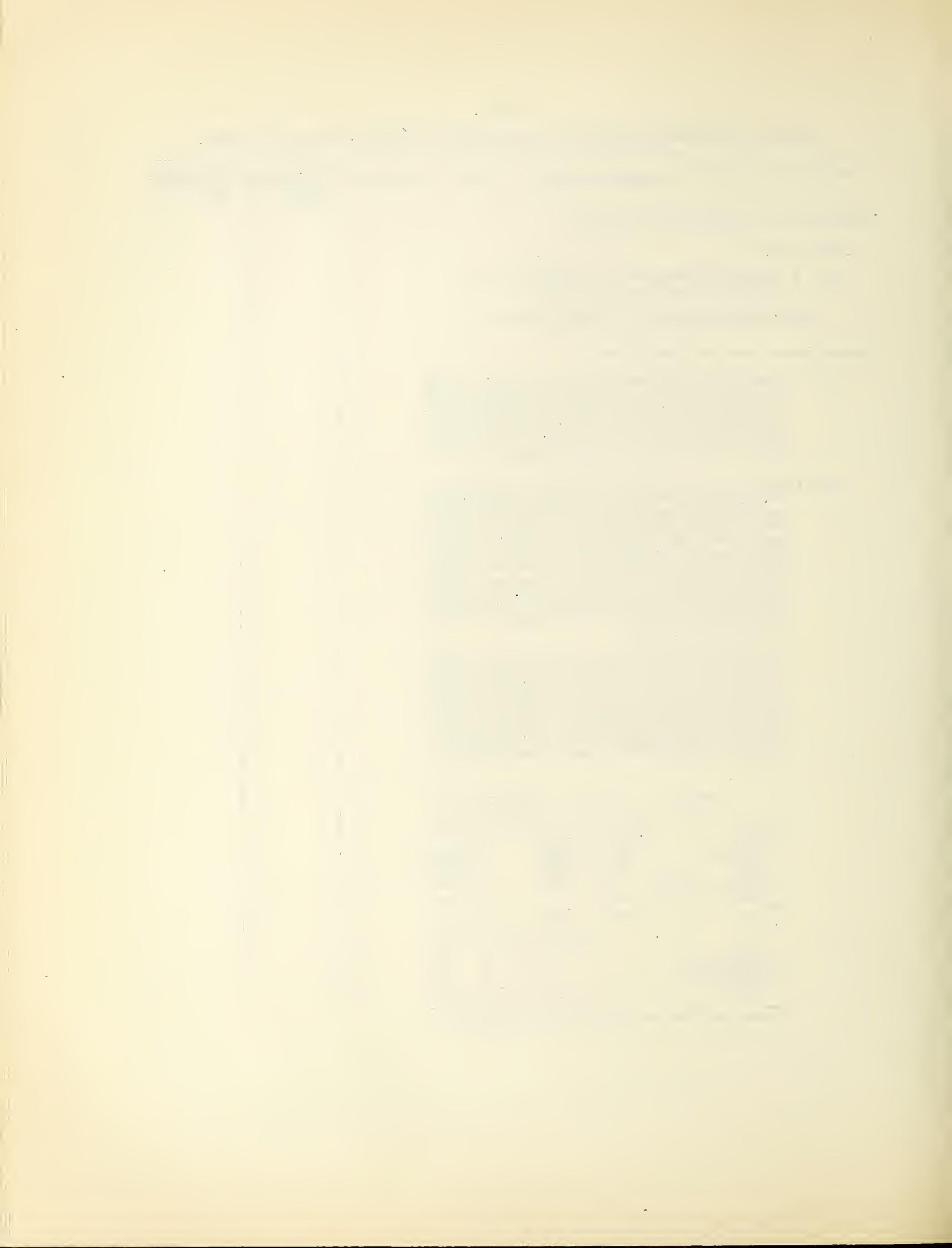
*General Expenses, Bureau of Biological Survey—*

- (33) For salaries and employment of labor in the city of Washington and elsewhere, furniture, supplies, traveling, and all other expenses necessary in conducting investigations and carrying out the work of the bureau, as follows (*acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; Oct. 1, 1918, vol. 40, pp. 994-995, sec. 1*):
- (34) For the enforcement of sections two hundred and forty-one, two hundred and forty-two, two hundred and forty-three, and two hundred and forty-four of the act approved March fourth, nineteen hundred and nine, entitled "An act to codify, revise, and amend the penal laws of the United States," and for the enforcement of section one of the act approved May twenty-fifth, nineteen hundred, entitled "An Act to enlarge the powers of the Department of Agriculture, prohibit the transportation by interstate commerce of game killed in violation of local laws, and for other purposes," including all necessary investigations in connection therewith, \$22,000.]

NOTE.—It is proposed to combine this item with that providing for the enforcement of the migratory-bird treaty law (see item 38). Much of the work heretofore carried on under the appropriation for the enforcement of the Lacey Act is now provided for by the migratory-bird treaty Act, which became effective on July 3, 1918, and assistants now employed under the game-preservation appropriation will hereafter devote considerable of their time to the enforcement of the migratory-bird treaty Act, under the appropriation for the protection of migratory birds. For this reason it seems advisable to combine the two appropriations and conduct the work for the protection of game and migratory birds under one head.

Employees.	Rate.	Estimated, 1920.*	Expended, 1918.
Salaries:			
Assistant.....per annum..	\$3,250.00	Number.	Number.
Assistant.....do.....	2,500.00	..	1 (part time)
Assistant.....do.....	1,600.00	..	1
Assistant biologist.....do.....	3,000.00	..	1 (part time)
Clerk.....do.....	1,200.00	..	1 (part time)
Inspector.....do.....	1,800.00	..	1 (part time)
Inspectors.....do.....	1,500.00	..	6 (3 temp.)
Collaborators and inspectors, \$600 to \$12.....do.....	.....	.....	11 (5 temp.)
Wages:			
Wages: Laborer.....per month..	75.00	..	1 (temp.)
.....	.....	.....	24
Salaries.....	.....	.....	\$13,033.01
Wages.....	.....	.....	255.00
Other objects of expenditure:			
Traveling expenses.....	.....	.....	7,044.84
Miscellaneous items.....	.....	.....	507.91
Total.....	.....	.....	20,840.76

\*Estimates for above work combined with those for protection of migratory birds for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Biological Survey—Continued.*

(35) For the maintenance of the Montana National Bison Range and other reservations and for the maintenance of game introduced into suitable localities on public lands, under supervision of the Biological Survey, including construction of fencing, wardens' quarters, shelters for animals, landings, roads, trails, bridges, ditches, telephone lines, rockwork, bulkheads, and other improvements necessary for the economical administration and protection of the reservations, and for the enforcement of section eighty-four of the act approved March fourth, nineteen hundred and nine, entitled "An Act to codify, revise, and amend the penal laws of the United States," [§35,000] \$33,800, of which sum \$2,500 may be used for the purchase, capture, and transportation of game for national reservations (*acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; Oct. 1, 1918, vol. 40, pp. 994-995, sec. 1*) ----- \$33,800.00

NOTE.—There is an apparent decrease in this item of \$1,200, due to the transfer of 1 clerk of class 1 to the statutory roll.

*Maintenance of mammal and bird reservations.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Assistant biologist.....per annum..	\$3,000.00	1	1 (pt. time)
Inspector.....do.....	1,800.00	1	1 (pt. time)
Assistant.....do.....	1,600.00	1 (pt. time)	1 (pt. time)
Reservation inspectors.....do.....	1,500.00	2	3 (pt. time)
Agent.....do.....	1,500.00	1	1
Wardens.....do.....	1,200.00	3 (2 new)	1
Warden.....do.....	1,000.00	1	1
Clerk(s).....do.....	1,200.00	1	1 (pt. time)
Inspectors and wardens, \$900 to \$12.....do.....	22 (19 temp.)	27 (22 temp.)	
Wages:			
Miscellaneous temporary labor, \$100 per month to \$2.40.....per diem..	50	97	
	81	134	
Salaries.....	\$17,112.00	\$14,805.33	
Wages.....	4,000.00	6,405.99	
Other objects of expenditure:			
Traveling expenses.....	4,750.00	2,659.53	
Equipment and material.....	4,650.00	4,311.47	
Miscellaneous items.....	788.00	4,386.60	
Total.....	31,300.00	32,568.92	

† Recommended for transfer to statutory roll in estimates for 1920.

*Game for national reservations.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Reservation inspector.....per annum..	\$1,400.00	1 (part time)	1 (part time)
Wages:			
Miscellaneous temporary labor, \$4.50 to \$2.....per diem..	10	3	
	11	4	
Salaries.....	\$300.00	\$79.17	
Wages.....	500.00	23.00	
Other objects of expenditure:			
Traveling expenses.....	500.00	138.28	
Miscellaneous items.....	1,200.00	102.85	
Total.....	2,500.00	343.30	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Biological Survey—Continued.*

(36) For investigating the food habits of North American birds and mammals in relation to agriculture, horticulture, and forestry, including experiments and demonstrations in destroying wolves, coyotes, prairie dogs, and other animals injurious to agriculture and animal husbandry, and for investigations and experiments in connection with rearing of fur-bearing animals, including mink and marten, [§394,820] §389,440: *Provided*, That of this sum \$15,000 shall be used for the destruction of ground squirrels on the national forests, and other public lands: *And provided also*, That of this sum not less than [§125,000] §123,800 shall be used on the national forests and the public domain in destroying wolves, coyotes, and other animals injurious to agriculture, animal husbandry, and wild game: *And provided further*, That of this sum not more than \$125,000 shall be used on the public lands, national forests, and elsewhere in the Western and Northwestern States for the protection of stock and other domestic animals through the suppression of rabies by the destruction of wolves, coyotes, and other predatory wild animals (*acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; Oct. 1, 1918, vol. 40, pp. 994-995, sec. 1*) ----- \$389,440.00

NOTE.—There is an apparent decrease in this item of \$5,380, due to the transfer to the statutory roll of this bureau of 1 clerk of class 2, 2 clerks of class 1, and 1 clerk at \$1,100, and the transfer to the statutory roll of the Secretary's office of 1 laborer at \$480.

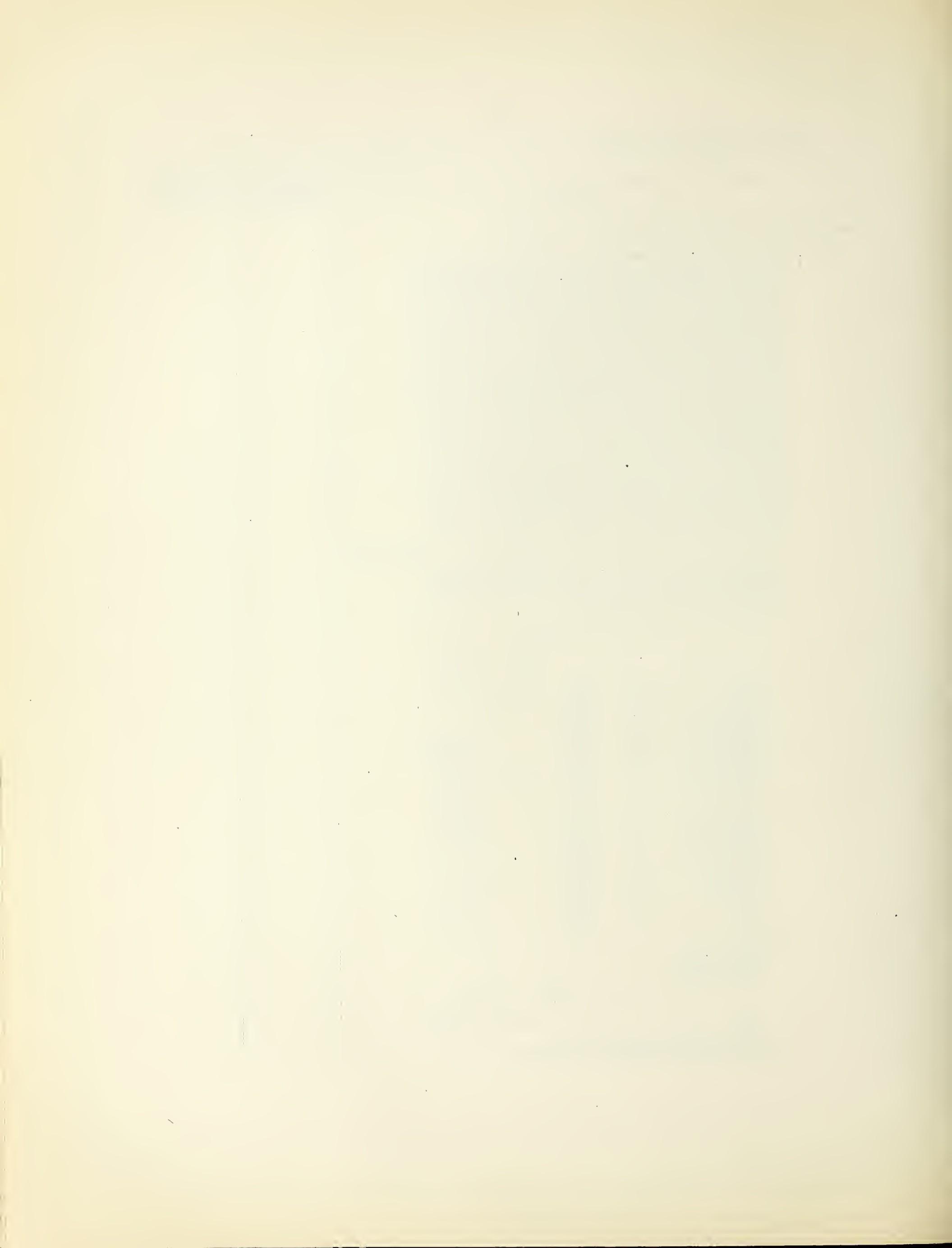
*Food habits of birds and mammals.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Assistant.....per annum..	\$3,250.00	1	1
Assistant biologist.....do.....	2,500.00	1 (part time)	1 (part time)
Assistant biologists.....do.....	2,400.00	2	1
Assistant biologist.....do.....	2,250.00	...	1
Assistant biologist.....do.....	2,200.00	1	1
Assistant biologist.....do.....	2,000.00	1	1
Assistant biologists.....do.....	1,800.00	3	3 (1 part time)
Assistant biologist.....do.....	1,600.00	1	1 (part time)
Assistant biologists.....do.....	1,200.00	2	3 (1 part time)
Assistant biologist.....do.....	1,400.00	...	1 (temp.)
Biological assistants.....do.....	1,680.00	3	4 (1 temp.)
Biological assistants.....do.....	1,620.00	3 (1 part time)	1 (temp.)
Biological assistants.....do.....	1,400.00	4	7 (2 temp.; 1 part time)
Biological assistants.....do.....	1,200.00	...	2 (1 temp.)
Biological assistant.....do.....	1,100.00	...	1 (temp.)
Biological assistant.....do.....	1,000.00	...	1 (temp.)
Technical assistant.....do.....	2,400.00	...	1 (temp.)
Technical assistant.....do.....	1,200.00	...	1 (temp.)
Executive assistant *.....do.....	1,850.00	...	1 (part time)
Predatory animal inspector.....do.....	1,620.00	1	1
Scientific indexer.....do.....	1,200.00	...	1 (temp.)
Scientific preparator.....do.....	1,200.00	1	1
Field assistant.....do.....	1,400.00	...	1 (temp.)
Field assistants.....do.....	1,200.00	...	2 (temp.)
Field assistant.....do.....	1,080.00	...	1 (temp.)
Fur farm keeper.....do.....	1,000.00	1	1
Clerk †.....do.....	1,200.00	...	1 (part time)
Clerk.....do.....	1,200.00	...	1 (temp.)
Clerk †.....do.....	1,100.00	...	1 (part time)
Assistant and watch- man, \$900 to \$720.....do.....	...	2 (temp.)	
Wages:			
Laborer ‡.....do.....	480.00	...	1
Miscellaneous tempo- rary labor, including horses, wagons, and equipment, \$175 to \$75 per month.....	200	177	
	221	224	
Salaries.....	\$40,440.00	\$47,412.30	
Wages.....	40,000.00	32,640.30	

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.

‡ Recommended for transfer to statutory roll of office of Secretary in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Biological Survey—Continued.**Food habits of birds and mammals—Continued.*

	Rate.	Estimated, 1920.	Expended, 1918.
Other objects of expenditure:			
Traveling expenses.....	\$16,200.00	\$20,951.68	
Equipment and material.....	4,000.00	2,023.00	
Miscellaneous items.....	25,000.00	26,278.07	
Total.....	125,640.00	129,305.35	

*Exterminating ground squirrels on national forests and public lands.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Biological assistant.....per annum..	\$1,620.00	Number. 1(part time)	Number. 1(part time)
Biological assistant.....do.....	1,400.00	..	..
Biological assistant.....do.....	1,200.00	..	1(part time)
Wages:			
Miscellaneous temporary labor, including horses, wagons, and equipment, \$175 to \$75.....per month.....	55	57	
	56	59	
Salaries.....	\$500.00	\$303.32	
Wages.....	8,000.00	7,402.68	
Other objects of expenditure:			
Traveling expenses.....	800.00	546.02	
Miscellaneous items.....	5,700.00	6,394.63	
Total.....	15,000.00	14,646.65	

*Destroying noxious animals on national forests and public domain.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Assistant biologist.....per annum..	\$2,500.00	Number. 1 (part time)	Number. 1 (part time)
Predatory animal inspector.....do.....	1,800.00	1 (part time)	1 (part time)
Predatory animal inspector.....do.....	1,680.00	1 (part time)	1 (part time)
Predatory animal inspectors.....do.....	1,620.00	5(2part time)	2
Predatory animal inspector.....do.....	1,440.00	1 (part time)	
Predatory animal inspectors.....do.....	1,400.00	1	4(3part time)
Predatory animal inspectors.....do.....	1,200.00	1	2(1part time)
Clerk†.....do.....	1,200.00	...	1 (part time)
Wages:			
Miscellaneous temporary labor, including horses, wagons, and equipment, \$225 to \$75.....per month.....	250	269	
	261	281	
Salaries.....	\$12,250.00	\$13,165.27	
Wages.....	93,000.00	85,448.14	
Other objects of expenditure:			
Traveling expenses.....	7,500.00	11,393.05	
Equipment and material.....	3,050.00	4,295.23	
Miscellaneous items.....	8,000.00	8,059.82	
Total.....	123,800.00	122,361.51	

†Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Biological Survey—Continued.**Suppressing spread of rabies in predatory wild animals.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Assistant biologist.....per annum..	\$2,500.00	1 (part time)	1 (part time)
Biological assistant.....do.....	1,740.00	1	1
Biological assistant.....do.....	1,620.00	1	1
Predatory animal inspector.....do.....	1,890.00	1 (part time)	1
Predatory animal inspector.....do.....	1,620.00	1 (part time)	...
Predatory animal inspector.....do.....	1,440.00	1 (part time)	...
Predatory animal inspector.....do.....	1,400.00	...	1
Predatory animal inspector.....do.....	1,200.00	...	2 (1 temp.; 1 part time)
Clerk.....do.....	1,200.00	1 (part time)	1 (part time)
Wages:			
Miscellaneous temporary labor, including horses, wagons, and equipment, \$225 to \$75.....per month.....		200	212
		207	220
Salaries.....		\$7,078.00	\$6,479.96
Wages.....		100,000.00	105,144.71
Other objects of expenditure:			
Traveling expenses.....		7,500.00	4,364.68
Equipment and material.....		4,000.00	2,400.72
Miscellaneous items.....		6,422.00	5,556.89
Total.....		125,000.00	123,946.96

- (37) For biological investigations, including the relations, habits, geographic distribution, and migrations of animals and plants, and the preparation of maps of the life zones [[\$25,600]] (acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; Oct. 1, 1918, vol. 40, pp. 994-995, sec. 1]) ----- \$24,400.00

NOTE.—There is an apparent decrease in this item of \$1,200, due to the transfer of 1 clerk of class 1 to the statutory roll.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Chief field naturalist.....per annum..	\$3,000.00	1	1 (part time)
Assistant biologists.....do.....	2,400.00	1	2 (1 temp.)
Assistant biologists.....do.....	2,220.00	2	—
Assistant biologist.....do.....	2,209.00	1	1
Assistant biologists.....do.....	2,000.00	—	2 (1 part time)
Assistant biologist.....do.....	1,860.00	1	1
Scientific preparator.....do.....	1,409.00	1	1
Clerk.....do.....	1,090.00	—	1 (temp.)
Preparator.....do.....	1,200.00	—	1 (temp.)
Field assistant.....do.....	1,200.00	1 (temp.)	2 (temp.)
Inspector.....do.....	1,500.00	1	1 (part time)
Field assistant.....per month.....	200.00	—	1 (temp.)
Field assistant.....do.....	125.00	—	1 (temp.)
Clerk, student assistants and field assistants, \$900 to \$12.....per annum.....		1	10 (9 temp.)
Wages:			
Miscellaneous temporary labor, \$75 to \$40.....per month.....		—	3
Laborer, including horses and pack-train equipment.....do.....	235.00	..	1 (temp.)
		10	29
Salaries.....		\$18,300.00	\$16,870.61
Wages.....			727.16
Other objects of expenditure:			
Traveling expenses.....		4,500.00	5,173.03
Miscellaneous items.....		1,600.00	1,929.77
Total.....		24,400.00	24,700.57



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Biological Survey—Continued.*

- (38) For all necessary expenses for enforcing the provisions of the [Act approved March fourth, nineteen hundred and thirteen, Thirty-seventh Statutes at Large, pages eight hundred and forty-seven and eight hundred and forty-eight, relating to the protection of migratory game and insectivorous birds, and any Act of Congress to give effect to the treaty with Great Britain relating to migratory birds] *migratory-bird treaty Act of July third, nineteen hundred and eighteen (Public number one hundred and eighty-six, Sixty-fifth Congress)*, and for cooperation with local authorities in the protection of migratory birds, and for necessary investigations connected therewith [[\$50,000]]; for the enforcement of sections two hundred and forty-one, two hundred and forty-two, two hundred and forty-three, and two hundred and forty-four of the act approved March fourth, nineteen hundred and nine, entitled "An Act to codify, revise, and amend the penal laws of the United States," and for the enforcement of section one of the Act approved May twenty-fifth, nineteen hundred, entitled "An Act to enlarge the powers of the Department of Agriculture, prohibit the transportation by interstate commerce of game killed in violation of local laws, and for other purposes," including all necessary investigations in connection therewith [[\$22,000]] (*acts May 25, 1900, vol. vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; Oct. 1, 1918, vol. 40, pp. 994-995, sec. 1*) ----- \$197,000.00

NOTE.—There is an apparent increase in this item of \$147,000, but in as much as the \$22,000 item for the enforcement of the Lacey Act is being transferred to this paragraph (see item 34), the actual increase in the appropriation for the protection of migratory birds under the Act of July 3, 1918, is \$125,000. This amount is urgently needed in order that the department may comply with the widespread and insistent demand for a more adequate enforcement of the law than is possible with the limited funds available at the present time, and in order to secure needed information for use as a basis for future regulations. The present appropriation of \$50,000 is wholly inadequate for the proper administration of the migratory-bird treaty act over the entire United States and Alaska. This is evident in view of the fact that the State of New York alone spends more than \$300,000 a year on its game and fish warden service, Illinois about \$125,000, and California about \$150,000.

In addition to the administration of the law it is necessary to conduct investigations in many parts of the country for the purpose of securing information concerning depredations on crops of certain species which must be controlled and to secure facts needed in the consideration of suggested changes in the regulations.

Reports from 43 States indicate a substantial increase in migratory wild fowl and insectivorous birds under the former imperfect migratory-bird law. Under the present Act, with its added powers, it is believed that, with sufficient funds to effectively administer the law, a very great increase can be made in the migratory game birds as well as the useful insectivorous species in this country.

Under the present appropriation of \$50,000 a number of the States are practically without any representative of the department for the purpose of enforcing the law. To guarantee general respect for this Act it is necessary that 21 additional United States game wardens be appointed.

The State constitutions of Pennsylvania, Virginia, South Carolina, Florida, Indiana, Illinois, Texas, and Wyoming prohibit State officers and employees from cooperating with the Federal Government in the enforcement of laws for the protection of migratory birds and receiving remuneration therefor from the Federal Government. For this reason it will be necessary to provide United States game wardens wholly in the service of the Federal Government in those States.

In order to insure cooperation between State game departments and the Department of Agriculture it is highly important that at least 50 United States deputy game wardens be employed, these to be chosen mainly from State game wardens and their best qualified deputies, each to



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Bureau of Biological Survey—Continued.</i>		

receive a salary of \$300 per annum and to be allowed actual traveling expenses, estimated at \$200 each. These deputy game wardens would be apportioned to the different States according to their importance as wild-fowl sections.

The language of the paragraph has been changed by omitting reference to the Lacey Act and inserting therefor reference to the new migratory-bird treaty Act of July 3, 1918.

Employees.	Rate.	Estimated, 1920.*	Expended, 1918.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Assistant.....per annum..	\$3,250.00	1	..
Chief United States game warden...do...	3,000.00	1	1
Deputy chief United States game warden.....do...	2,500.00	1	...
United States district game wardens.....do...	1,800.00	3 (new)	..
Assistant .....do...	2,500.00	..	1
Assistant.....do...	1,600.00	1(pt. time)	..
Assistant biologist.....do...	2,000.00	..	1(pt. time)
Assistant biologist.....do...	1,800.00	..	1(pt. time)
Assistant biologist.....do...	1,400.00	..	1 (temp.)
United States game warden.....do...	1,800.00	1	..
United States game warden.....do...	1,650.00	..	1
United States game warden.....do...	1,575.00	1	..
United States game wardens.....do...	1,500.00	33 (15 new)	16 (5 temp.)
United States game wardens.....do...	1,200.00	7 (new)	..
Clerk.....do...	1,600.00	1 (new)	..
Clerk.....do...	1,400.00	1 (new)	..
Clerk.....do...	1,200.00	1 (new)	..
Collaborators, inspectors, game wardens, and game protectors, \$600 to \$1.....do...	255 (50 new)	227	..
<b>Wages:</b>			
Miscellaneous temporary labor, \$5 to \$1.50.....per diem..	..	43	..
	308	292	
<b>Salaries.....</b>	\$99,700.00	\$29,296.63	
<b>Wages.....</b>	..	2,522.75	
<b>Other objects of expenditure:</b>			
Traveling expenses.....	72,300.00	9,402.63	
Material and equipment.....	5,000.00	..	
Miscellaneous items.....	20,000.00	743.71	
<b>Total.....</b>	197,000.00	41,965.72	

\* Game preservation has been combined with this appropriation for 1920.

- (39) For general administrative expenses connected with the above-mentioned lines of work, including cooperation with other Federal bureaus, departments, boards, and commissions, on request from them (acts May 25, 1900, vol. 31, p. 187, sec. 1; Mar. 4, 1909, vol. 35, pp. 1104, 1137, and 1138, sec. 1; Mar. 4, 1913, vol. 37, pp. 847, 848, sec. 1; Oct. 1, 1918, vol. 40, pp. 994-995, sec 1).... \$10,760.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>		<i>Number.</i>	<i>Number.</i>
Assistant chief of bureau.....per annum..	\$3,250.00	1	1
Expert in game conservation.....do...	3,250.00	..	1(part time)
Chief field naturalist.....do...	3,000.00	..	1(part time)
Clerk †.....do...	1,400.00	..	1(part time)
Clerks †.....do...	1,200.00	..	2 (1 part time).
Clerk.....do...	1,200.00	..	1(temp.)
Clerk †.....do...	1,100.00	..	1(part time)
Clerk.....do...	1,000.00	..	1 (temp.)
Clerk, watchman, charwoman and fireman, \$900 to \$264.....do...	2 (temp.)	4 (temp.)	..
	3	13	
<b>Salaries.....</b>	\$5,450.00	\$7,703.38	
<b>Other objects of expenditure:</b>			
Stationery.....	500.00	322.29	
Traveling expenses.....	2,300.00	1,536.24	
Equipment and material.....	1,300.00	1,271.43	
Telephone and telegraph service.....	400.00	152.33	
Miscellaneous items.....	810.00	658.22	
<b>Total.....</b>	10,760.00	11,643.89	

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Bureau of Biological Survey—Continued.</i>		
In all, for general expenses-----	\$655, 400. 00	\$538, 180. 00
Appropriations for 1910..... \$74, 420	Estimates for 1911..... \$71, 520	
Deficiency act..... 7, 700	Estimates for 1912..... 101, 000	
Appropriations for 1911..... 71, 520	Estimates for 1913..... 108, 300	
Appropriations for 1912..... 115, 700	Estimates for 1914..... 143, 000	
Appropriations for 1913..... 166, 300	Estimates for 1915..... 233, 500	
Appropriations for 1914..... 141, 000	Estimates for 1916..... 236, 820	
Appropriations for 1915..... 248, 500	Estimates for 1917..... 449, 880	
Appropriations for 1916..... 411, 820	Estimates for 1918..... 613, 140	
Deficiency act..... 75, 000	Estimates for 1919..... 538, 090	
Appropriations for 1917..... 534, 200	Estimates for 1920..... 655, 400	
Appropriations for 1918..... 545, 700		
Appropriations for 1919..... 538, 180		
<i>Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).</i>		
GENERAL EXPENSES—BUREAU OF BIOLOGICAL SURVEY.		
1 clerk, \$1,400 per annum.		
5 clerks, at \$1,200 each per annum.		
1 clerk, \$1,100 per annum.		
1 clerk, \$1,000 per annum.		
1 clerk, \$900 per annum.		
Total for Bureau of Biological Survey-----	710, 870. 00	586, 350. 00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continue d.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
DIVISION OF ACCOUNTS AND DISBURSEMENTS.		
<i>Salaries, Division of Accounts and Disbursements—</i>		
(1) One chief of division and disbursing clerk ( <i>R. S.</i> , p. 87, secs. 520-523; <i>act Oct. 1, 1918, vol. 40, p. 996, sec. 1</i> )-----	\$4,000.00	
(2) One supervising auditor ( <i>same acts</i> )-----	2,250.00	
(3) One cashier and chief clerk ( <i>same acts</i> )-----	2,250.00	
(4) One deputy disbursing clerk ( <i>same acts</i> )-----	2,000.00	
(5) One accountant and bookkeeper ( <i>same acts</i> )-----	2,000.00	
(6) Two clerks, class 4 ( <i>same acts</i> )-----	3,600.00	
(7) Four clerks, class 3 ( <i>same acts</i> )-----	6,400.00	
(8) Six clerks, class 2 ( <i>same acts</i> )-----	8,400.00	
(9) Five clerks, class 1 ( <i>same acts</i> )-----	6,000.00	
(10) Four clerks, at \$1,000 each ( <i>same acts</i> )-----	4,000.00	
(11) Three clerks, at \$900 each ( <i>same acts</i> )-----	2,700.00	
(12) One messenger ( <i>same acts</i> )-----	720.00	
(13) One messenger or messenger boy ( <i>same acts</i> )-----	600.00	
Appropriations for 1910.....\$61,490 Estimates for 1911.....\$61,490		
Appropriations for 1911.....79,990 Estimates for 1912.....98,470		
Appropriations for 1912.....97,520 Estimates for 1913.....104,620		
Appropriations for 1913.....104,620 Estimates for 1914.....104,170		
Appropriations for 1914.....104,370 Estimates for 1915.....59,920		
Appropriations for 1915.....46,320 Estimates for 1916.....44,920		
Appropriations for 1916.....44,920 Estimates for 1917.....44,920		
Appropriations for 1917.....44,920 Estimates for 1918.....44,720		
Appropriations for 1918.....44,920 Estimates for 1919.....44,920		
Appropriations for 1919.....44,920 Estimates for 1920.....44,920		
Total for Division of Accounts and Disbursements-----	\$44,920.00	\$44,920.00
SUPPLEMENTAL ESTIMATE.		
<i>Promotion:</i>		
(14) 1 messenger, \$720 to \$900-----\$180		
(This promotion is recommended in order that the salary of this position may conform to the minimum salary recommended for messengers, as set forth in the general note regarding minimum salaries.)		
<i>New places:</i>		
(15) 2 clerks, class 1-----2,400	\$2,580	
(These are new places and are recommended in lieu of 3 clerks at \$900 each, with a resulting decrease of \$300 in the amount provided for statutory salaries. The 3 places recommended dropped are now vacant as it is impossible to secure competent clerical assistance at this salary. The division is greatly in need of additional clerical assistance, and if the 2 new places at \$1,200 are allowed, they will be filled by original appointments.)		



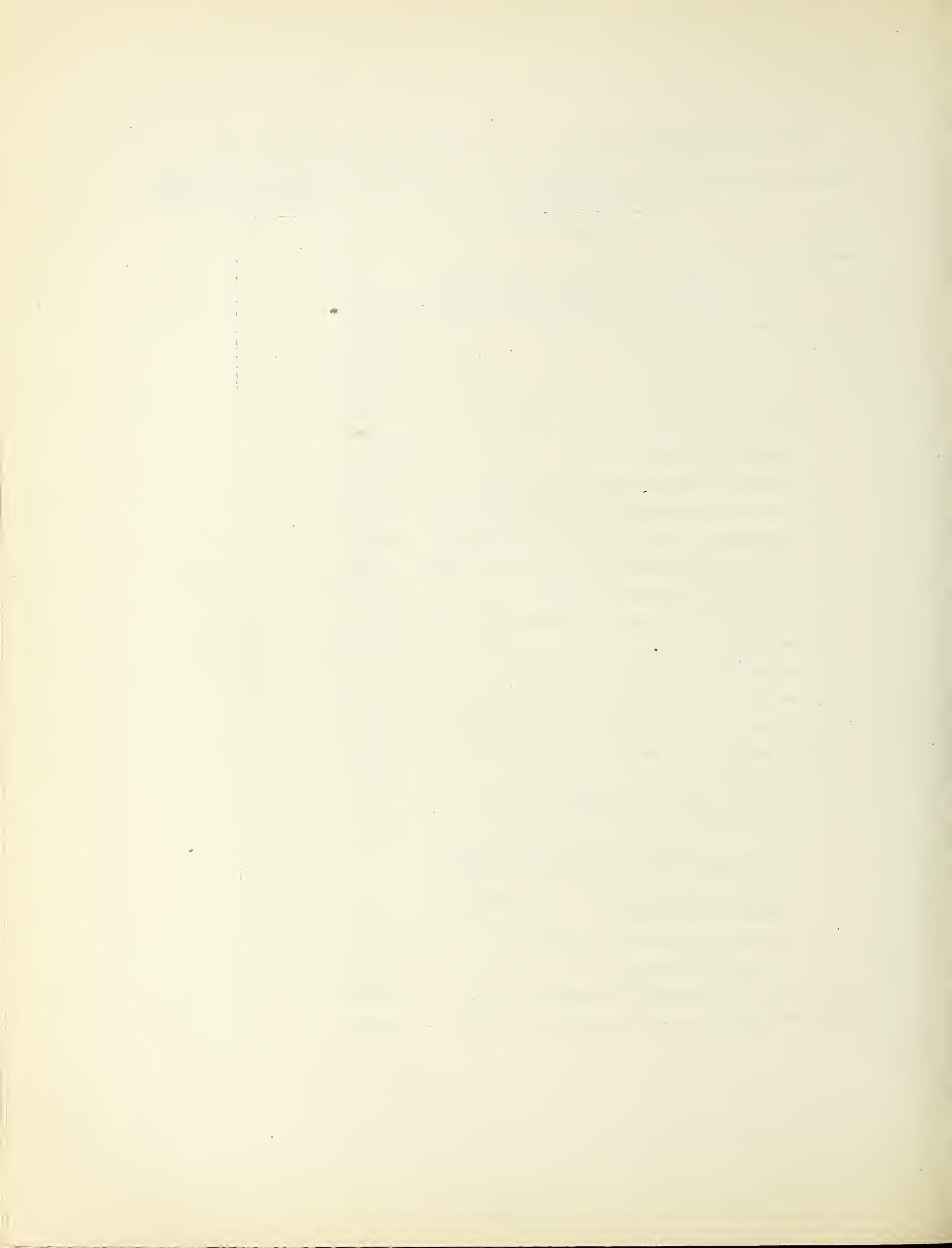
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Division of Accounts and Disbursements—Continued.</i>		
<i>Places dropped:</i>		
(16) 3 clerks, at \$900 each .....	\$2,700	
(See preceding note.)		
Net decrease .....	120	
<i>Change in title:</i>		
(17) 1 messenger or messenger boy, \$600, to 1 messenger boy, \$600.		
This change is recommended in order that the title of this position will clearly indicate the character of work performed.		



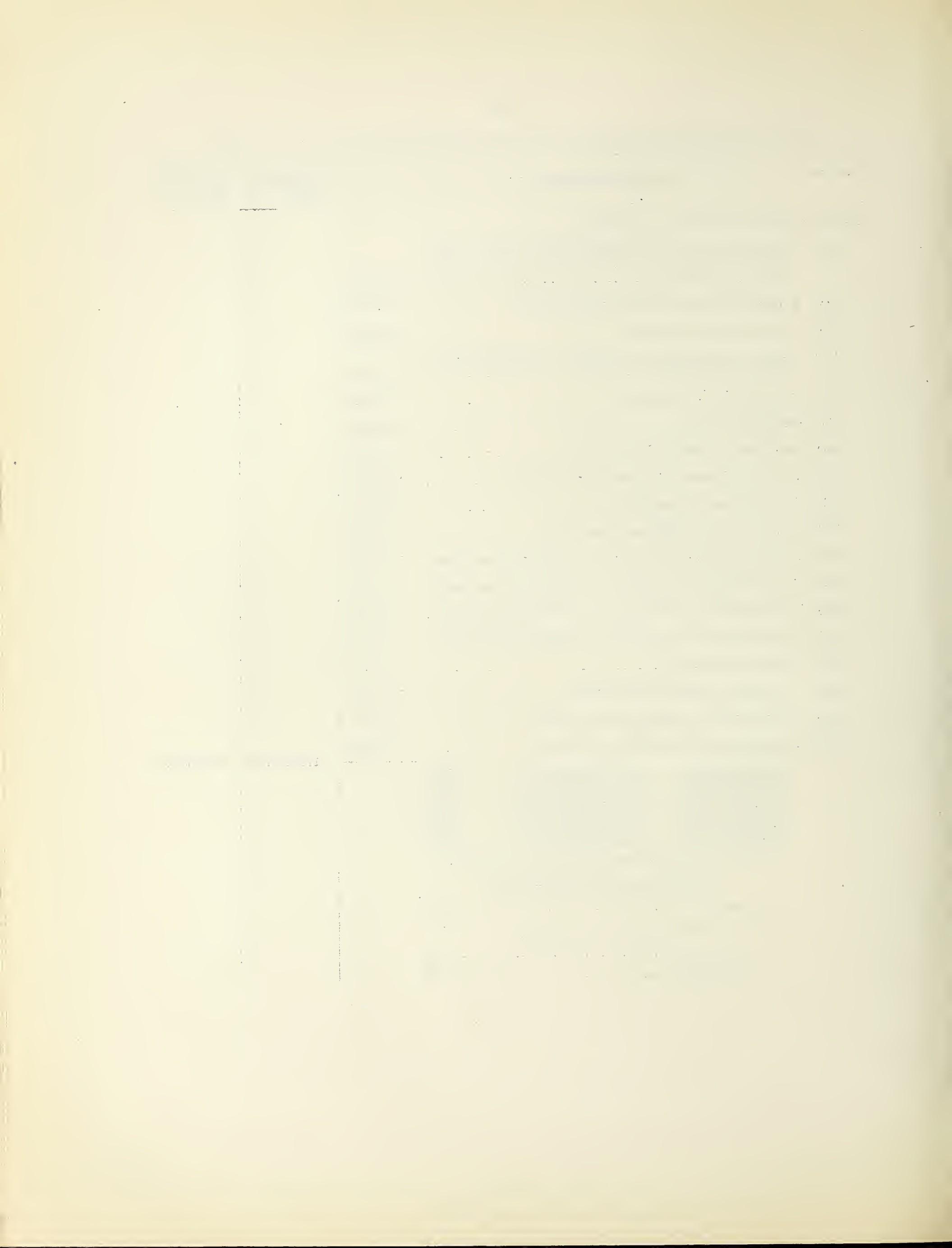
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
DIVISION OF PUBLICATIONS.		
<i>Salaries, Division of Publications—</i>		
(1) One chief of division ( <i>R. S., p. 87, secs. 520-523; acts Mar. 1, 1899, vol. 30, p. 948, sec. 1; Oct. 1, 1918, vol. 40, p. 996, sec. 1</i> ) ..	\$3,500.00	
(2) One assistant chief of division ( <i>same acts</i> ) .....	2,500.00	
(3) One chief clerk ( <i>same acts</i> ) .....	2,000.00	
(4) One assistant ( <i>same acts</i> ) .....	2,000.00	
(5) One assistant ( <i>same acts</i> ) .....	1,400.00	
(6) One assistant in charge of indexing ( <i>same acts</i> ) .....	2,000.00	
(7) One indexer ( <i>same acts</i> ) .....	1,400.00	
(8) One assistant in charge of illustrations ( <i>same acts</i> ) .....	2,100.00	
(9) Two draftsmen or photographers, at \$1,600 each ( <i>same acts</i> ) ..	3,200.00	
(10) Two draftsmen or photographers, at \$1,500 each ( <i>same acts</i> ) ..	3,000.00	
(11) Three draftsmen or photographers, at \$1,400 each ( <i>same acts</i> ) ..	4,200.00	
(12) One draftsman or photographer ( <i>same acts</i> ) .....	1,300.00	
(13) Ten draftsmen or photographers, at \$1,200 each ( <i>same acts</i> ) ..	12,000.00	
(14) One assistant photographer ( <i>same acts</i> ) .....	900.00	
(15) One lantern-slide colorist ( <i>same acts</i> ) .....	840.00	
(16) One laboratory aid ( <i>same acts</i> ) .....	720.00	
(17) One assistant in charge of document section ( <i>same acts</i> ) .....	2,000.00	
(18) One assistant in document section ( <i>same acts</i> ) .....	1,800.00	
(19) One assistant in document section ( <i>same acts</i> ) .....	1,400.00	
(20) One foreman, miscellaneous distribution ( <i>same acts</i> ) .....	1,500.00	
(21) One clerk, class 3 ( <i>same acts</i> ) .....	1,600.00	
(22) Two clerks, class 2 (increase of 1 by transfer from statutory roll, Secretary's office) ( <i>same acts</i> ) .....	2,800.00	
(23) Ten clerks, class 1 (decrease of 1 by transfer to statutory roll, Secretary's office) ( <i>same acts</i> ) .....	12,000.00	
(24) Sixteen clerks, at \$1,000 each ( <i>same acts</i> ) .....	16,000.00	
(25) Forty clerks, at \$900 each ( <i>same acts</i> ) .....	36,000.00	
(26) Twenty-one clerks, at \$840 each ( <i>same acts</i> ) .....	17,640.00	
(27) Two skilled laborers, at \$900 each ( <i>same acts</i> ) .....	1,800.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>SALARIES, Division of Publications—Continued.</i>		
(28) Seven skilled laborers, at \$840 each ( <i>R. S., p. 87, secs. 520-523; acts Mar. 1, 1899, vol. 30, p. 948, sec. 1; Oct. 1, 1918, vol. 40, p. 996, sec. 1</i> )-----	\$5,880.00	
(29) Four skilled laborers, at \$780 each ( <i>same acts</i> )-----	3,120.00	
(30) One chief folder ( <i>same acts</i> )-----	1,200.00	
(31) Twenty skilled laborers, messengers, or messenger boys, at \$720 each ( <i>same acts</i> )-----	14,400.00	
(32) One skilled laborer ( <i>same acts</i> )-----	720.00	
(33) One folder ( <i>same acts</i> )-----	1,000.00	
(34) Two folders, at \$900 each ( <i>same acts</i> )-----	1,800.00	
(35) Two skilled laborers, at \$1,100 each ( <i>same acts</i> )-----	2,200.00	
(36) One skilled laborer ( <i>same acts</i> )-----	1,000.00	
(37) Two messengers, at \$840 each ( <i>same acts</i> )-----	1,680.00	
(38) Three messengers or messenger boys, at \$600 each ( <i>same acts</i> )-----	1,800.00	
(39) Two messengers or messenger boys, at \$480 each ( <i>same acts</i> )-----	960.00	
(40) Two messengers or messenger boys, at \$420 each ( <i>same acts</i> )-----	840.00	
(41) Two messengers or messenger boys, at \$360 each ( <i>same acts</i> )-----	720.00	
(42) One laborer ( <i>same acts</i> )-----	840.00	
(43) Two laborers, at \$600 each ( <i>same acts</i> )-----	1,200.00	
(44) Three charwomen, at \$480 each ( <i>same acts</i> )-----	1,440.00	
(45) Three charwomen, at \$240 each ( <i>same acts</i> )-----	720.00	
Appropriations for 1910..... \$173,450 Estimates for 1911..... \$172,730		
Appropriations for 1911..... 172,730 Estimates for 1912..... 177,510		
Appropriations for 1912..... 179,960 Estimates for 1913..... 181,110		
Appropriations for 1913..... 194,700 Estimates for 1914..... 165,810		
Appropriations for 1914..... 166,410 Estimates for 1915..... 171,090		
Appropriations for 1915..... 170,750 Estimates for 1916..... 174,750		
Appropriations for 1916..... 174,750 Estimates for 1917..... 175,830		
Appropriations for 1917..... 177,400 Estimates for 1918..... 184,160		
Appropriations for 1918..... 181,920 Estimates for 1919..... 178,920		
Appropriations for 1919..... 178,920 Estimates for 1920..... 179,120		
	\$179,120.00	\$178,920.00
NOTE.—Apparent increase, \$200; actual increase, \$200, as follows:		
<i>Transfer from statutory roll, Secretary's office.</i>		
1 clerk, class 2.....	\$1,400	
<i>Transfer to statutory roll, Secretary's office.</i>		
1 clerk, class 1.....	1,200	
Actual increase.....	200	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Division of Publications—Continued.</i>		
<b>SUPPLEMENTAL ESTIMATE.</b>		
<i>Promotions:</i>		
(46) 2 draftsmen or photographers, \$1,600 to \$1,800 each.	\$400	
(These increases will provide promotions for employees having service records of 9 and 19 years, and who were last promoted on April 3, 1917, and July 1, 1913, respectively. One of these employees supervises the photographic work of the division while the other supervises the drafting work. Both of these employees are highly efficient and the promotions recommended, if allowed, will provide a salary more nearly commensurate with the duties performed and the responsibilities of the positions.)		
(47) 2 draftsmen or photographers, \$1,200 to \$1,400 each.	400	
(The salaries paid by commercial concerns for services similar to those rendered by the employees involved in this change are very much higher than paid by the Government, and unless the promotions recommended are allowed, it will be exceedingly difficult to retain the services of these valuable employees.)		
(48) 1 assistant in document section, \$1,400, to 1 assistant, \$1,600	200	
(This promotion is recommended for one of the most faithful and earnest workers in the division. She has been in the department more than 30 years and was last promoted over 9 years ago. She has charge of the supervision of all work incident to the mailing-list records, and has had much success in securing the maximum of service from the employees under her immediate supervision.)		
(49) 1 folder, \$1,000 to \$1,400	400	
(This promotion is recommended in the case of an employee rendering clerical service of a high order. This employee's work includes the keeping of stock records and separate accounts with every Senator, Representative, and Delegate in Congress. She was last promoted on July 1, 1914.)		
(50) 1 lantern-slide colorist, \$840 to \$900	60	
(This promotion and those which follow, affecting clerical and sub-clerical employees, are recommended in order that the salaries of the respective positions may conform to the minimum salary recommended for such positions, as set forth in the general note regarding minimum salaries. To accomplish this result, a number of changes in title will be necessary and are indicated. While no specific minimum salary is recommended for lantern-slide colorist it is believed that the salary of such position should at least be equal with the minimum salary for laborers.)		
(51) 1 laboratory aid, \$720 to \$900	180	
(See preceding note.)		
(52) 36 clerks, \$900 to \$1,000 each	3,600	
(See preceding note.)		
(53) 2 skilled laborers, \$900 to \$1,000 each	200	
(See preceding note.)		
(54) 7 skilled laborers, \$840 to \$1,000 each	1,120	
(See preceding note.)		
(55) 4 skilled laborers, \$780 to \$1,000 each	880	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Division of Publications—Continued.</i>		
<i>Promotions—Continued.</i>		
(56) 13 skilled laborers, messengers, or messenger boys, at \$720 each, to 13 skilled laborers, at \$1,000 each . . . . .	\$3,640	
(See preceding note.)		
(57) 1 skilled laborer, \$720 to \$1,000 . . . . .	280	
(See preceding note.)		
(58) 2 messengers, at \$840 each, to 2 messengers or laborers, at \$900 each . . . . .	120	
(See preceding note.)		
(59) 1 laborer, \$840, to 1 messenger or laborer, \$900 . . . . .	60	
(See preceding note.)		
(60) 2 laborers, at \$600 each, to 2 messengers or laborers, \$900 each . . . . .	600	
(See preceding note.)		
(61) 2 messengers or messenger boys, at \$420 each, to 2 at messenger boys, at \$480 each . . . . .	120	
(See preceding note.)		
(62) 2 messengers or messenger boys, at \$360 each, to 2 messenger boys, at \$480 each . . . . .	240	
(See preceding note.)		
<i>New places:</i>		
(63) 1 chief editor . . . . .	2,750	
(There is need of a chief editor in the Division of Publications to have charge of the work of other editors in connection with the formal publications of the department. This work at present is handled by the chief of division, but the great increase in his duties and responsibilities make it necessary to have a special assistant in the editorial section. There is no one in the Division of Publications who could be assigned to these duties, and it is proposed to fill the position by original appointment.)		
(64) 1 superintendent of distribution . . . . .	2,500	
(This employee's salary is now paid from emergency funds. Since his duties undoubtedly will be permanent, a place should be provided for him on the statutory roll.)		
(65) 3 clerks, class 3 . . . . .	4,800	
(These places and 3 clerks, class 2, 8 clerks, class 1, and 7 clerks, at \$1,000 each, are recommended in lieu of 21 clerks, at \$840 each, dropped, as below. The purpose of this recommendation is to provide promotions for efficient and deserving clerks in the lower grades. There is no change in the number of places. It is practically impossible to secure and retain clerks at \$840, and this recommendation involves the abolition of that grade entirely.)		
(66) 3 clerks, class 2 . . . . .	4,200	
(See preceding note.)		
(67) 8 clerks, class 1 . . . . .	9,600	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Division of Publications—Continued.</i>		
<i>New places—Continued.</i>		
(68) 7 clerks, at \$1,000 each -----	\$7,000	
(See preceding note.)		
(69) 5 machine operators, at \$1,200 each -----	6,000	
(These employees are now designated as multigraph operators and paid from emergency funds. They will be needed permanently on account of the great increase in the normal activities of the division requiring help of this kind. It is therefore desirable to provide for them on the statutory roll. The change in title is desirable in order to permit more flexibility in filling the positions should vacancies occur.)		
(70) 5 skilled laborers, at \$1,000 each -----	5,000	
(Additional assistance is needed in order to take care of the greatly increased work in the folding room. Many of the present employees are becoming superannuated. If these new places are allowed, it is proposed to fill them by original appointments.)		
(71) 1 messenger or laborer -----	900	\$55,250
(The services of an additional chauffeur are needed. It is proposed to fill this place by original appointment.)		
<i>Places dropped:</i>		
(72) 21 clerks, at \$840 each -----	17,640	
(These places are recommended dropped, and 21 new places at salaries of \$1,600, \$1,400, \$1,200, and \$1,000, submitted in lieu thereof. See note under item 65.)		
(73) 1 assistant photographer -----	900	18,540
(The above place is recommended omitted as it is impossible to secure and retain competent help at this low salary.)		
Net increase -----		36,710
<i>Changes in title:</i>		
(74) 1 assistant in charge of document section, \$2,000, to 1 assistant, \$2,000.		
(This change in title is recommended as the document section is now a part of the section of distribution.)		
(75) 1 assistant in document section, \$1,800, to 1 assistant, \$1,800.		
(See preceding note.)		
(76) 1 draftsman or photographer, \$1,200, to 1 laboratory aid, \$1,200.		
(This change and those which follow are recommended in order that the titles of the positions may more clearly indicate the character of work performed.)		
(77) 7 skilled laborers, messengers, or messenger boys, at \$720 each, to 7 messenger boys, at \$720 each.		
(See preceding note.)		



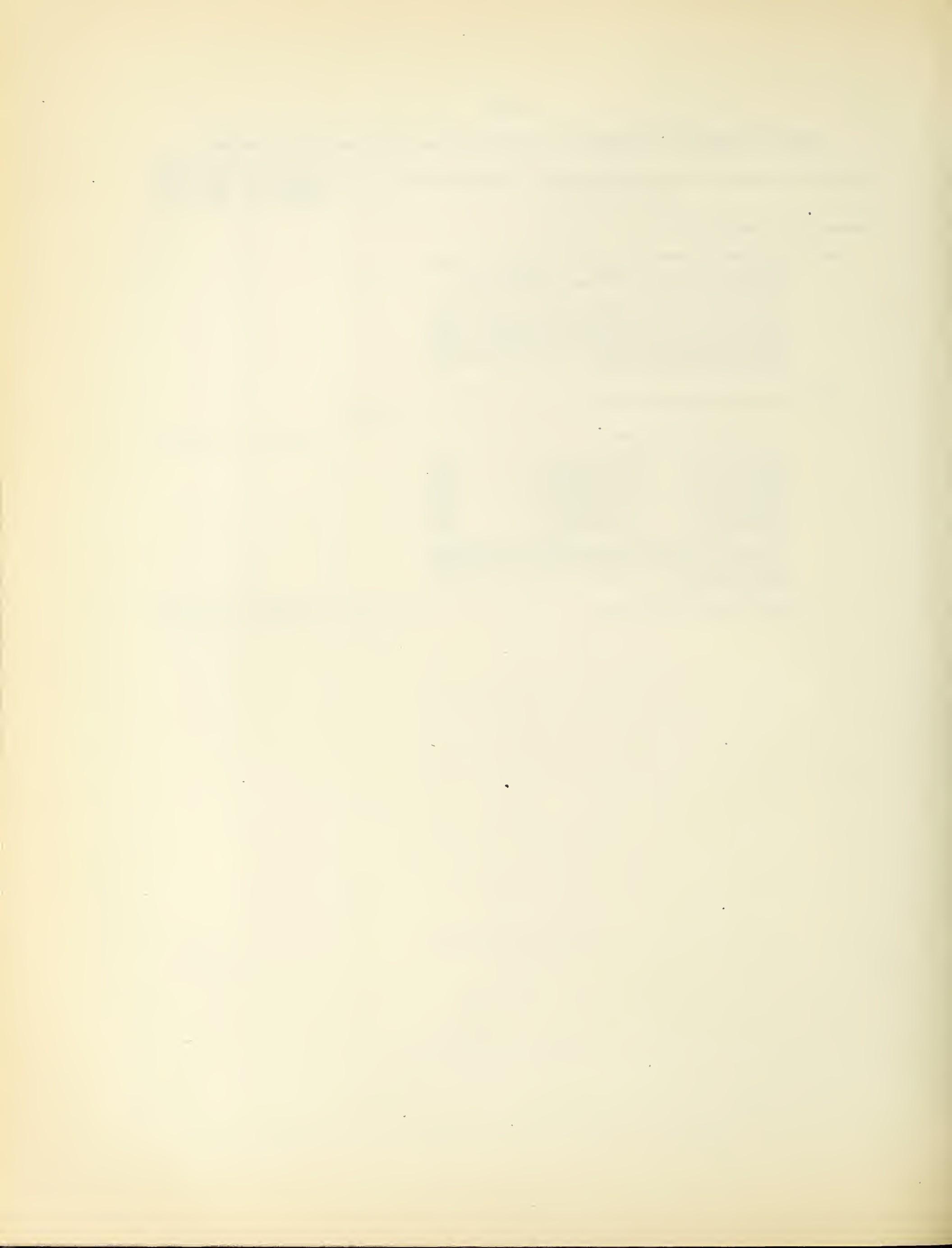
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Division of publications—Continued.</i>		
<i>Changes in title—Continued.</i>		
(78) 3 messengers or messenger boys, at \$600 each, to 3 messenger boys, at \$600 each.  (See preceding note.)		
(79) 2 messengers or messenger boys, at \$480 each, to 2 messenger boys, at \$480 each.  (See preceding note.)		
<i>General Expenses, Division of Publications—</i>		
(80) For miscellaneous objects of expenditure in connection with the publication, indexing, illustration, and distribution of bulletins, documents, and reports, as follows ( <i>act Oct. 1, 1918, vol. 40, p. 997, sec. 1</i> ):		
(81) For labor-saving machinery, including necessary supplies [\$3,500] ( <i>same acts</i> ) . . . . .	\$5,000.00	
NOTE.—There is an increase in this item of \$1,500. The addressograph system has recently been installed in the division to replace a slower and more or less antiquated system of addressing envelopes. The expansion of the addressograph system will require the purchase of more machinery and supplies in order to properly take care of the work. Additional funds are also needed to purchase general supplies required in connection with the duplicating work.		
(82) For envelopes, stationery, and materials ( <i>same acts</i> ) . . . . .	7,500.00	
(83) For office furniture and fixtures ( <i>same acts</i> ) . . . . .	1,320.00	
(84) For photographic equipment and for photographic materials and artists' tools and supplies, [\$17,000] \$22,000: <i>Provided</i> , That the Secretary of Agriculture is authorized, under such rules and regulations and subject to such conditions as he may prescribe, to loan, rent, or sell copies of films: <i>Provided</i> , That in the sale or rental of films educational institutions or associations for agricultural education not organized for profit shall have preference; all moneys received from such rentals or sales to be covered into the Treasury of the United States as miscellaneous receipts ( <i>same acts</i> ) . . . . .	22,000.00	
NOTE.—There is an increase in this item of \$5,000. This additional amount is necessary because of the large increase in the motion-picture work and the general photographic laboratory work. The cost of materials has also greatly increased.		
(85) For telephone and telegraph service and freight and express charges [\$500] ( <i>same acts</i> ) . . . . .	750.00	
NOTE.—There is an increase in this item of \$250. The present appropriation of \$500 is inadequate for the necessary telephone and telegraph service and to cover the cost of freight and expressage on supplies purchased in the open market. The shipping of motion-picture films also has greatly increased the expense for freight and expressage.		
(86) For wagons, motor trucks, bicycles, horses, harness, and maintenance of the same [\$500] ( <i>same acts</i> ) . . . . .	1,000.00	
NOTE.—There is an increase in this item of \$500. The present appropriation of \$500 is insufficient for the purchase of necessary supplies for trucks and wagons, including tires and gasoline, and for the replacing of parts of the trucks when necessary.		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	
<i>General Expenses, Division of Publications—Continued.</i>			
(87) For purchase of manuscripts, traveling expenses, electrotypes, illustrations, and other expenses not otherwise provided for [§3,000] (act Oct. 1, 1918, vol. 40, p. 997, sec. 1) . . . . .	\$4,000.00		
NOTE.—There is an increase in this item of \$1,000. This is the miscellaneous fund of the Division of Publications, from which many articles not provided for by other appropriations must be purchased. Among these are large numbers of line engravings and half-tone cuts used in printing publications and other work. It is also necessary to pay for material used at the department shops for work of various kinds needed by the different sections of the division.			
(88) For extra labor and emergency employments in the District of Columbia (same acts) . . . . .	2,500.00		
In all, for general expenses . . . . .	\$44,070.00	\$35,820.00	
Appropriations for 1910. . . . .	\$33,000	Estimates for 1911. . . . .	\$30,000
Appropriations for 1911. . . . .	30,000	Estimates for 1912. . . . .	30,000
Appropriations for 1912. . . . .	30,000	Estimates for 1913. . . . .	25,000
Appropriations for 1913. . . . .	25,000	Estimates for 1914. . . . .	18,250
Appropriations for 1914. . . . .	18,250	Estimates for 1915. . . . .	18,750
Appropriations for 1915. . . . .	18,750	Estimates for 1916. . . . .	18,750
Appropriations for 1916. . . . .	18,750	Estimates for 1917. . . . .	20,250
Appropriations for 1917. . . . .	20,250	Estimates for 1918. . . . .	40,870
Appropriations for 1918. . . . .	32,070	Estimates for 1919. . . . .	35,820
Appropriations for 1919. . . . .	35,820	Estimates for 1920. . . . .	44,070
NOTE.—As the objects of the appropriations are so clearly defined in the items above for general expenses, the classification of expenditures called for by section 10 of the sundry civil act of Aug. 1, 1914, has been deemed unnecessary.			
Total for Division of Publications . . . . .	223,190.00	214,740.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
BUREAU OF CROP ESTIMATES.		
<i>Salaries, Bureau of Crop Estimates—</i>		
(1) One statistician, who shall be chief of bureau ( <i>R. S., p. 87, secs. 520-523; act Oct. 1, 1918, vol. 40, p. 997, sec. 1</i> )-----	\$4,000.00	
(2) One chief clerk ( <i>same acts</i> )-----	1,800.00	
(3) Six clerks, class 4 ( <i>same acts</i> )-----	10,800.00	
(4) Nine clerks, class 3 ( <i>same acts</i> )-----	14,400.00	
(5) Fifteen clerks, class 2 ( <i>same acts</i> )-----	21,000.00	
(6) One clerk ( <i>same acts</i> )-----	1,300.00	
(7) Twenty-four clerks, class 1 ( <i>same acts</i> )-----	28,800.00	
(8) Nineteen clerks, at \$1,000 each ( <i>same acts</i> )-----	19,000.00	
(9) Twenty-four clerks, at \$900 each ( <i>same acts</i> )-----	21,600.00	
(10) Three messengers, at \$840 each ( <i>same acts</i> )-----	2,520.00	
(11) Three messengers or laborers, at \$720 each ( <i>same acts</i> )-----	2,160.00	
(12) Two messengers, messenger boys, or laborers, at \$660 each ( <i>same acts</i> )-----	1,320.00	
(13) One messenger, messenger boy, or laborer ( <i>same acts</i> )-----	480.00	
(14) One charwoman, messenger, or laborer ( <i>same acts</i> )-----	540.00	
(15) One charwoman, messenger boy, or laborer (decrease of 1 by transfer of 1 charwoman to statutory roll, Secretary's office) ( <i>same acts</i> )-----	360.00	
		\$130,080.00
		\$130,440.00
Appropriations for 1910..... \$103,860   Estimates for 1911..... \$104,700		
Appropriations for 1911..... 104,700   Estimates for 1912..... 109,670		
Appropriations for 1912..... 108,720   Estimates for 1913..... 111,720		
Appropriations for 1913..... 112,380   Estimates for 1914..... 115,880		
Appropriations for 1914..... 115,380   Estimates for 1915..... 114,180		
Appropriations for 1915..... 115,580   Estimates for 1916..... 116,780		
Appropriations for 1916..... 116,780   Estimates for 1917..... 122,880		
Appropriations for 1917..... 122,880   Estimates for 1918..... 130,340		
Appropriations for 1918..... 122,880   Estimates for 1919..... 130,440		
Appropriations for 1919..... 130,440   Estimates for 1920..... 130,080		
NOTE.—Apparent decrease, \$360; actual decrease, \$360, as follows:		
<i>Transfer to statutory roll, Secretary's office.</i>		
1 charwoman-----	\$360	
SUPPLEMENTAL ESTIMATE.		
<i>Promotions:</i>		
(16) 1 chief clerk, \$1,800 to \$2,250-----	\$450	
(This employee has been in the service of the department nearly 12 years and received his last promotion April 19, 1917, when he became chief clerk of the bureau. The salary of this position is the lowest paid to chief clerks in the department and has remained stationary since 1905. In the meantime the responsibilities of the office have greatly increased with the growth of the bureau. There are a number of supervisory clerks in the bureau having only limited authority who receive the same salary as the chief clerk, whose authority extends to the business operations of the entire bureau.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Crop Estimates—Continued.</i>		
<i>Promotions—Continued.</i>		
(17) 1 charwoman, messenger boy, or laborer, \$360, to 1 charwoman, \$480-----	\$120	
(This employee has worked in the bureau for a number of years, has rendered good service, and the pay is regarded as wholly inadequate. She is a full-day employee. The proposed change in title is for the purpose of clearly indicating the character of work performed.)		
(18) 1 messenger, \$840, to 1 messenger or laborer, \$900-----	60	
(This promotion and those which follow are recommended in order that the salaries of the respective positions may conform to the minimum salary recommended for such positions, as set forth in the general note regarding minimum salaries.)		
(19) 3 messengers or laborers, \$720 to \$900 each-----	540	
(See preceding note.)		
<i>New places:</i>		
(20) 5 clerks, class 4-----	9,000	
(These places and 5 clerks, class 3, 3 clerks, class 2, 16 clerks, class 1, and 7 clerks, at \$1,000 each, are submitted in lieu of 1 clerk, \$1,300 and 24 clerks, at \$900 each, dropped, as below. This readjustment will result in the elimination of all the \$900 clerical places in the bureau and will add 11 to the total number of clerks. The clerkship at \$1,300 is being dropped because it is the only one of this grade in the bureau, and it is not believed desirable to have an odd salary intervening between the grades of clerks of class 1 and clerks of class 2. It is no longer possible to secure suitable clerks at \$900, and vacancies are constantly occurring in this grade. The employees receiving \$900 are barred by law from transfers to higher salaries in other departments, and opportunities for promotion within the bureau are infrequent. In the meantime, the prevailing entrance salary for clerks is \$1,000 or higher, and these new clerks are, as a rule, inferior in training and experience to many of those already in the service at \$900. This readjustment will not only provide promotions for clerks receiving low salaries, but also for a number of deserving and efficient higher-salaried clerks who have been in the bureau for a number of years.)		
(21) 5 clerks, class 3-----	8,000	
(See preceding note.)		
(22) 3 clerks, class 2-----	4,200	
(See preceding note.)		
(23) 16 clerks, class 1-----	19,200	
(See preceding note.)		
(24) 7 clerks, at \$1,000 each-----	7,000	
(See preceding note.)		
(25) 1 messenger boy-----	660	
(This employee is now paid from emergency funds, but as the services of an additional messenger boy will be permanently needed on account of the increased volume of work of the bureau, provision should be made for him on the statutory roll.)	<hr/> ----- \$49,230	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriations.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Crop Estimates—Continued.</i>		
<i>Places dropped:</i>		
(26) 1 clerk ----- \$1,300		
(This place and 24 clerks, at \$900 each, are recommended omitted and 36 higher salaried places submitted in lieu thereof. The reasons for this change are fully set forth in the note above under item 20.)		
(27) 24 clerks, at \$900 each ----- 21,600		
(See note under item 20.)		
(28) 2 messengers, at \$840 each ----- 1,680		
(These places have been vacant a long time. It is therefore recommended that they be dropped.)		
	----- \$24,580	
Net increase -----	24,650	
<i>Changes in title:</i>		
(29) 2 messengers, messenger boys, or laborers, at \$660 each, to 2 messenger boys, at \$660 each.		
(These changes and those which follow are recommended in order that the titles of the respective positions may clearly indicate the character of work performed.)		
(30) 1 messenger, messenger boy, or laborer, \$480, to 1 messenger boy, \$480.		
(See preceding note.)		
(31) 1 charwoman, messenger, or laborer, \$540, to 1 charwoman, \$540.		
(See preceding note.)		
<i>General Expenses, Bureau of Crop Estimates—</i>		
(32) For all necessary expenses for collecting, compiling, abstracting, analyzing, summarizing, and interpreting data relating to agriculture; for making and publishing periodically crop and live-stock estimates, including acreage, yield, and value of farm products, as follows ( <i>acts Mar. 3, 1903, vol. 32, p. 1162, sec. 1; Oct. 1, 1918, vol. 40, p. 997, sec. 1</i> ):		
(33) Salaries and employment of labor in the city of Washington and elsewhere, supplies, telegraph and telephone service, freight and express charges, and all other necessary miscellaneous administrative expenses [§24,230] (same acts) -----	25,980.00	
NOTE.—There is an increase in the above item of \$1,750. It is proposed to use this additional amount as follows:		
(a) \$750 for salary increases for three of the administrative officers of the bureau. These men are statisticians of high ability, have rendered long and valuable service to the department, and their responsibilities have greatly increased during the past year or two.		
(b) \$1,000 for stationery, furniture, typewriters, and other necessary office equipment and supplies.		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Crop Estimates—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<i>Number.</i>			
Salaries:			
Assistant chief of bureau.....per annum..	\$3,750.00	1	..
Assistant chief of bureau.....do.....	3,504.00	..	1
Statistical scientist.....do.....	3,504.00	1	1
Chief, division of crop records.....do.....	2,760.00	1	..
Chief, division of crop records.....do.....	2,520.00	..	1
Chief, division of crop records.....do.....	2,520.00	1	..
Chief, division of crop records.....do.....	2,256.00	..	1
Clerk*.....do.....	1,800.00	..	1
Clerk*.....do.....	1,200.00	..	1
Clerk.....do.....	1,200.00	1	1
Clerk*.....do.....	900.00	..	1
Clerk.....per diem.....	2.00	2 (temp.)	2 (temp.)
Messenger*.....per annum.....	840.00	..	1
Watchman*.....do.....	720.00	..	1
Watchman.....do.....	720.00	1 (temp.)	1 (temp.)
Wages:			
Unskilled laborer*.....do.....	720.00	..	1
Temporary laborers.....per diem.....	2.50 to 2	2	2 (temp.)
.....per annum.....	300.00	25	25
		35	41
Salaries.....		\$14,574.00	\$15,162.99
Wages.....		3,980.00	2,745.52
Other objects of expenditure:			
Stationery.....		2,500.00	1,234.89
Equipment and material.....		2,500.00	2,641.23
Miscellaneous items.....		2,426.00	2,575.40
Total.....		25,980.00	24,360.03

\*Transferred to statutory roll in Agricultural act for 1919.

- (34) Salaries, travel, and other necessary expenses of employees out of the city of Washington engaged in field investigations [§191,562] (acts Mar. 3, 1903, vol. 32, p. 1162, sec. 1; Oct. 1, 1918, vol. 40, p. 997, sec. 1) ----- \$233,841.00

NOTE.—There is an increase in the above item of \$42,279, which it is proposed to use as follows:

(1) \$240 for the promotion of the chief of the field force from \$2,760 to \$3,000. This increase is fully justified by the importance of the position and the high efficiency of this official, who has served 11 years in the department.

(2) \$3,600 for the appointment of two assistant truck-crop specialists, at \$1,800 each. For the purpose of truck-crop reporting, the country has been divided into seven distinct producing areas. Three specialists have already been provided and it is planned to employ two more under the Food Production Act. If provision is made for the two additional specialists herein recommended, one will be assigned to Oklahoma, Arkansas, Tennessee, South Carolina, North Carolina, and Georgia—a district containing important early-cabbage, watermelon, cantaloupe, strawberry, tomato, and early Irish-potato producing areas; and the other to Texas, Kansas, Missouri, Illinois, Iowa, Minnesota, and Wisconsin, in which territory are located the main Bermuda-onion producing areas and important cabbage, tomato, cucumber, and pea producing regions.

(3) \$5,000 for traveling expenses of the two additional truck-crop specialists.

(4) \$20,650 for additional traveling expenses of the present field force, as follows:

(a) \$18,450 for 41 field agents, at \$450 each. The cost of traveling is increasing, and the more intensive inspection necessary requires the hiring of automobiles. This mode of travel, while comparatively expensive, is vastly more efficient than any other.

(b) \$900 for one fruit-crop specialist and two assistants, at \$300 each. A large part of the inspection conducted by these men is in orchard districts at points difficult of access except by automobile travel.

(c) \$1,300 for inspection trips by administrative officers to the field agents' headquarters and to attend group meetings of field agents. The practice of holding group meetings of field agents for purposes of discussion and instruction has been recently instituted and has proved decidedly helpful. So far as possible the chief of bureau or other administrative officers attend these meetings.

(5) \$4,500 for stationery. The volume of special inquiries and the consequent consumption of paper and envelopes are increasing. An effort is being made to curtail the use of envelopes so far as may be done without detriment to the service, but with such economy as can be effected the cost will still be larger in 1920 than in previous years.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Crop Estimates—Continued.*

(6) \$4,000 for equipment and material. It is planned to use the larger part of this increase for the purchase of equipment needed for the proper systematization and standardization of the files and records of the various State agents. The balance will be required for the replacement of worn-out furniture, equipment, and miscellaneous materials.

(7) \$1,058 for rent of office rooms, including water, heat, light, and janitor service. The rent agreements in effect at present amount to \$2,422 per annum, but this sum is not sufficient. So far as possible quarters are obtained for field agents in Federal buildings. It has been the general practice of the agents, however, to furnish space in their own homes for official use, a procedure which has become very unsatisfactory because the volume of files and current work has greatly increased and clerk hire has become necessary, making a more businesslike arrangement imperative.

(8) \$1,500 for telegraph, telephone, and postage charges, incident to the increasing volume of work handled by the bureau in connection with its regular activities.

(9) \$1,731 for miscellaneous items.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Chief of field service.....per annum..	\$3,000.00	1	..
Chief of field service.....do.....	2,760.00	..	1
Truck crop specialist.....do.....	2,520.00	1	1
Cotton crop specialist.....do.....	2,520.00	1	1
Tobacco crop specialist.....do.....	2,040.00	1	..
Tobacco crop specialist.....do.....	1,800.00	..	1
Fruit crop specialist.....do.....	2,040.00	1	..
Fruit crop specialist.....do.....	1,800.00	..	1
Rice crop specialist.....do.....	1,860.00	1	..
Rice crop specialist.....do.....	1,608.00	..	1
Field agent.....do.....	2,520.00	1	..
Field agents.....do.....	2,400.00	6	2
Field agents.....do.....	2,280.00	3	..
Field agents.....do.....	2,256.00	5	5(1 part time)
Field agents.....do.....	2,100.00	8	..
Field agents.....do.....	2,040.00	9	..
Field agents.....do.....	2,016.00	2	6
Field agents.....do.....	1,860.00	4	..
Field agents.....do.....	1,800.00	3	23(2 part time)
Field agents.....do.....	1,608.00	1	7
Assistant fruit crop specialist.....do.....	2,040.00	1	..
Assistant fruit crop specialist.....do.....	1,860.00	1	..
Assistant fruit crop specialist.....do.....	1,800.00	..	1
Assistant fruit crop specialist.....do.....	1,608.00	..	1
Assistant truck crop specialist.....do.....	2,040.00	1	..
Assistant truck crop specialist.....do.....	1,860.00	1	..
Assistant truck crop specialists.....do.....	1,800.00	2 (new)	2
Assistant truck crop specialists.....do.....	1,608.00	1	2
Clerk.....do.....	1,200.00	..	1 (temp.)
Special agent and collaborators, \$900 to \$1.....do.....	..	2	11(9 part time)
		57	67
Salaries.....		\$119,041.00	\$102,157.78
Other objects of expenditure:			
Stationery.....	10,000.00	7,196.22	
Traveling expenses.....	90,300.00	56,359.62	
Equipment and material.....	5,000.00	4,699.77	
Telegraph and telephone service.....	3,000.00	1,044.80	
Miscellaneous items.....	6,500.00	2,293.12	
Total.....	233,841.00	173,751.31	

In all, for general expenses.....

\$259,821.00      \$215,792.00

Appropriations for 1910.....	117,060	Estimates for 1911.....	115,620
Appropriations for 1911.....	115,620	Estimates for 1912.....	124,900
Appropriations for 1912.....	122,900	Estimates for 1913.....	128,300
Appropriations for 1913.....	128,300	Estimates for 1914.....	128,300
Appropriations for 1914.....	128,300	Estimates for 1915.....	186,500
Appropriations for 1915.....	160,000	Estimates for 1916.....	174,656
Appropriations for 1916.....	166,700	Estimates for 1917.....	193,556
Appropriations for 1917.....	193,556	Estimates for 1918.....	219,596
Appropriations for 1918.....	200,572	Estimates for 1919.....	228,567
Appropriations for 1919.....	215,792	Estimates for 1920.....	259,821

*Statement of clerks employed in District of Columbia under lump-sum appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).*

GENERAL EXPENSES—BUREAU OF CROP ESTIMATES.

2 clerks, at \$1,200 each per annum.

Total for Bureau of Crop Estimates.....	389,901.00	346,232.00
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	
<b>LIBRARY, DEPARTMENT OF AGRICULTURE.</b>			
<i>Salaries, Library, Department of Agriculture—</i>			
(1) One librarian ( <i>R. S., p. 87, secs. 520-523; act Oct. 1, 1918, vol. 40, p. 997, sec. 1</i> )-----	\$2,000.00		
(2) One clerk, class 3 ( <i>same acts</i> )-----	1,600.00		
(3) One clerk, class 2 ( <i>same acts</i> )-----	1,400.00		
(4) Five clerks, class 1 ( <i>same acts</i> )-----	6,000.00		
(5) Three clerks, at \$1,080 each ( <i>same acts</i> )-----	3,240.00		
(6) Three clerks, at \$1,020 each ( <i>same acts</i> )-----	3,060.00		
(7) Four clerks, at \$1,000 each ( <i>same acts</i> )-----	4,000.00		
(8) Six clerks, at \$900 each ( <i>same acts</i> )-----	5,400.00		
(9) One clerk ( <i>same acts</i> )-----	840.00		
(10) One junior library assistant, messenger, or messenger boy ( <i>same acts</i> )-----	720.00		
(11) One junior library assistant or messenger boy ( <i>same acts</i> )-----	660.00		
(12) Three junior library assistants or messenger boys, at \$600 each ( <i>same acts</i> )-----	1,800.00		
(13) One messenger, messenger boy, or laborer ( <i>same acts</i> )-----	480.00		
(14) Two charwomen, at \$480 each ( <i>same acts</i> )-----	960.00		
		\$32,160.00	
Appropriations for 1910.....	\$19,320	Estimates for 1911.....	\$19,920
Appropriations for 1911.....	19,920	Estimates for 1912.....	23,000
Appropriations for 1912.....	25,000	Estimates for 1913.....	27,650
Appropriations for 1913.....	25,750	Estimates for 1914.....	29,520
Appropriations for 1914.....	27,020	Estimates for 1915.....	27,860
Appropriations for 1915.....	27,860	Estimates for 1916.....	29,720
Appropriations for 1916.....	29,720	Estimates for 1917.....	31,520
Appropriations for 1917.....	31,520	Estimates for 1918.....	34,920
Appropriations for 1918.....	32,160	Estimates for 1919.....	32,160
Appropriations for 1919.....	32,160	Estimates for 1920.....	32,160

**SUPPLEMENTAL ESTIMATE.***Promotions:*

(15) 1 librarian, \$2,000 to \$2,500----- \$500

(This increase is fully warranted because of the responsibilities of the position and, if allowed, will provide a salary more nearly commensurate with the duties performed, and one that will compare favorably with salaries paid for similar service in other branches of the Government. This employee has been in the department for 23 years and has received no promotion for over 12 years.)

(16) 1 junior library assistant, messenger, or messenger boy, \$720, to 1 messenger, \$900----- 180

(This promotion is recommended in order that the salary of the position may conform to the minimum salary recommended for messengers, as set forth in the general note regarding minimum salaries. The change in title indicated is desirable as the employee occupying this position performs messenger work.)



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Library, Department of Agriculture—Continued.</i>		
<i>New places:</i>		
(17) 1 assistant librarian----- \$2,000		
(This place and 3 library assistants, at \$1,800 each, 4 library assistants, at \$1,440 each, and 3 library assistants, at \$1,320 each, are submitted in lieu of 4 clerks, at \$1,000 each, 6 clerks, at \$900 each, and 1 clerk, \$840, dropped, as below. These changes propose a regrading of the salaries of library assistants. There is no increase in the number of positions. The place of assistant librarian, at \$2,000, is provided with the view of promoting a clerk of class 3. Her position requires executive ability, library training and much experience, familiarity with the work of the department, and a knowledge of foreign languages and scientific literature. She has been in the department 23 years, receiving her last promotion 8 years ago. Her present salary is regarded as inadequate. It is lower than that paid to several of the bureau librarians, whose responsibilities are not as great as hers. Provision is also made for the promotion of certain library assistants who perform a high-grade service requiring library training and experience and a knowledge of foreign languages, and, in order to hold these positions, are required to pass the scientific-assistant civil-service examination. The salaries paid in the main library are inadequate for the grade of service rendered and are lower, in comparison, than those paid for similar work in the bureau libraries.)		
(18) 3 library assistants, at \$1,800 each----- 5,400		
(See preceding note.)		
(19) 4 library assistants, at \$1,440 each----- 5,760		
(See preceding note.)		
(20) 3 library assistants, at \$1,320 each----- 3,960		
(See preceding note.)		
(21) 3 clerks, class 1----- 3,600	\$21,400	
(These places are submitted in lieu of 3 clerks, at \$1,020 each, dropped, as below, and are recommended in order that the librarian may secure and retain the services of competent clerks. This is impossible at the present salaries.)		
<i>Places dropped:</i>		
(22) 3 clerks, at \$1,020 each----- 3,060		
(See preceding note.)		
(23) 4 clerks, at \$1,000 each----- 4,000		
(These places and 6 clerks, at \$900 each, and 1 clerk, \$840, are recommended omitted as indicated in the note under item 17.)		
(24) 6 clerks, at \$900 each----- 5,400		
(See note under item 17.)		
(25) 1 clerk----- 840		
(See note under item 17.)	13,300	
Net increase-----	8,100	
<i>Change in title:</i>		
(26) 1 messenger, messenger boy, or laborer, \$480, to 1 messenger boy, \$480.		
(This change is recommended in order that the title of the position may clearly indicate the character of work performed.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																
<i>General Expenses, Library—</i>																																																		
(27) For books of reference, technical and scientific books, papers and periodicals, and for expenses incurred in completing imperfect series; for the employment of additional assistants in the city of Washington and elsewhere; for official traveling expenses, and for library fixtures, library cards, supplies, and for all other necessary expenses ( <i>act Oct. 1, 1918, vol. 40, p. 997, sec. 1</i> )-----	\$18, 000. 00	\$18, 000. 00																																																
<table border="1"> <thead> <tr> <th>Employees.</th> <th>Rate.</th> <th>Estimated, 1920.</th> <th>Expended, 1918.</th> </tr> </thead> <tbody> <tr> <td>Salaries:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Scientific assistant in library science.....per annum..</td> <td>\$1, 200. 00</td> <td>1</td> <td>1</td> </tr> <tr> <td>    Assistant in library science,     junior library assistants,     messenger boys, and char-     women, \$840 to \$240.....do.....</td> <td></td> <td></td> <td>7 (temp.)</td> </tr> <tr> <td></td> <td></td> <td>1</td> <td>8</td> </tr> <tr> <td>    Salaries.....</td> <td></td> <td>\$1, 200. 00</td> <td>\$1, 748. 33</td> </tr> <tr> <td>Other objects of expenditure:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Stationery.....</td> <td></td> <td>250. 00</td> <td>417. 70</td> </tr> <tr> <td>    Traveling expenses.....</td> <td></td> <td>150. 00</td> <td></td> </tr> <tr> <td>    Equipment and material.....</td> <td></td> <td>16, 350. 00</td> <td>13, 648. 56</td> </tr> <tr> <td>    Miscellaneous items.....</td> <td></td> <td>50. 00</td> <td>15. 00</td> </tr> <tr> <td>    Total.....</td> <td></td> <td>18, 000. 00</td> <td>15, 829. 59</td> </tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:				Scientific assistant in library science.....per annum..	\$1, 200. 00	1	1	Assistant in library science, junior library assistants, messenger boys, and char- women, \$840 to \$240.....do.....			7 (temp.)			1	8	Salaries.....		\$1, 200. 00	\$1, 748. 33	Other objects of expenditure:				Stationery.....		250. 00	417. 70	Traveling expenses.....		150. 00		Equipment and material.....		16, 350. 00	13, 648. 56	Miscellaneous items.....		50. 00	15. 00	Total.....		18, 000. 00	15, 829. 59		
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Appropriation for 1918.....18, 000	Estimate for 1919.....18, 000																																																	
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<b>Total for library-----</b>	<b>50, 160 00</b>	<b>50, 160. 00</b>																																																



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

**MISCELLANEOUS EXPENSES.***Miscellaneous Expenses, Department of Agriculture—*

For stationery, blank books, twine, paper, gum, dry goods, soap, brushes, brooms, mats, oils, paints, glass, lumber, hardware, ice, fuel, water and gas pipes, heating apparatus, furniture, carpets, and mattings; for lights, freight, express charges, advertising, telegraphing, telephoning, postage, washing towels, and necessary repairs and improvements to buildings and heating apparatus; for the purchase, subsistence, and care of horses and the purchase and repair of harness and vehicles, for official purposes only; for the payment of duties on imported articles, and the Department of Agriculture's proportionate share of the expense of the dispatch agent in New York; for official traveling expenses; and for other miscellaneous supplies and expenses not otherwise provided for, and necessary for the practical and efficient work of the department, \$142,500 [of which \$5,000 shall be immediately available] (act Oct. 1, 1918, vol. 40, pp. 997-998, sec. 1) -----

\$142,500.00      \$142,500.00

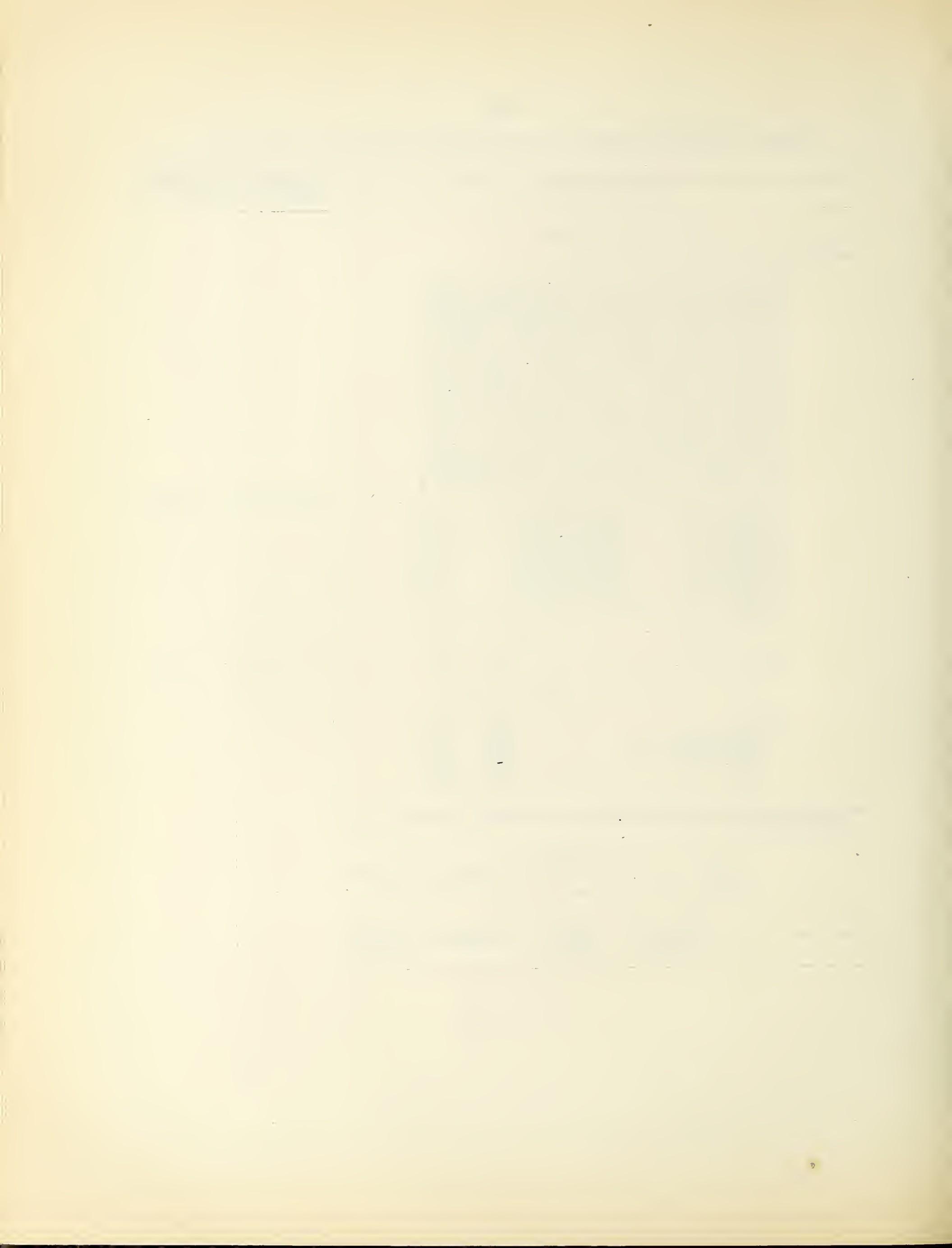
Appropriation for 1910.....	\$80,000	Estimate for 1911.....	\$100,000
Appropriation for 1911.....	100,000	Estimate for 1912.....	110,000
Appropriation for 1912.....	110,000	Estimate for 1913.....	96,066
Appropriation for 1913.....	106,066	Estimate for 1914.....	106,066
Appropriation for 1914.....	106,066	Estimate for 1915.....	110,000
Appropriation for 1915.....	110,000	Estimate for 1916.....	115,000
Appropriation for 1916.....	115,000	Estimate for 1917.....	115,000
Appropriation for 1917.....	122,500	Estimate for 1918.....	122,500
Appropriation for 1918.....	137,500	Estimate for 1919.....	137,500
Appropriation for 1919.....	142,500	Estimate for 1920.....	142,500

NOTE.—The clause making \$5,000 immediately available should be omitted.

Employees.	Rate.	Estimated, 1920.		Expended, 1918.
		Number.	Number.	
Salaries: United States dispatch agent per annum..	600.00	1	1	
		1	1	
Salaries.....		\$600.00	\$600.00	
Other objects of expenditure:				
Stationery.....		12,000.00	12,238.95	
Traveling expenses.....		3,000.00	657.97	
Equipment and material.....		93,900.00	81,196.06	
Telephone and telegraph service.....		3,000.00	3,150.54	
Miscellaneous items.....		30,000.00	22,797.54	
Total.....		142,500.00	120,641.06	

*Statement of proposed expenditures from the appropriation for miscellaneous expenses, Department of Agriculture, for the fiscal year ending June 30, 1920, for the maintenance, repair, and operation of horse-drawn passenger-carrying vehicles, as required by section 5 of the act of July 16, 1914 (38 Stat., p. 508).*

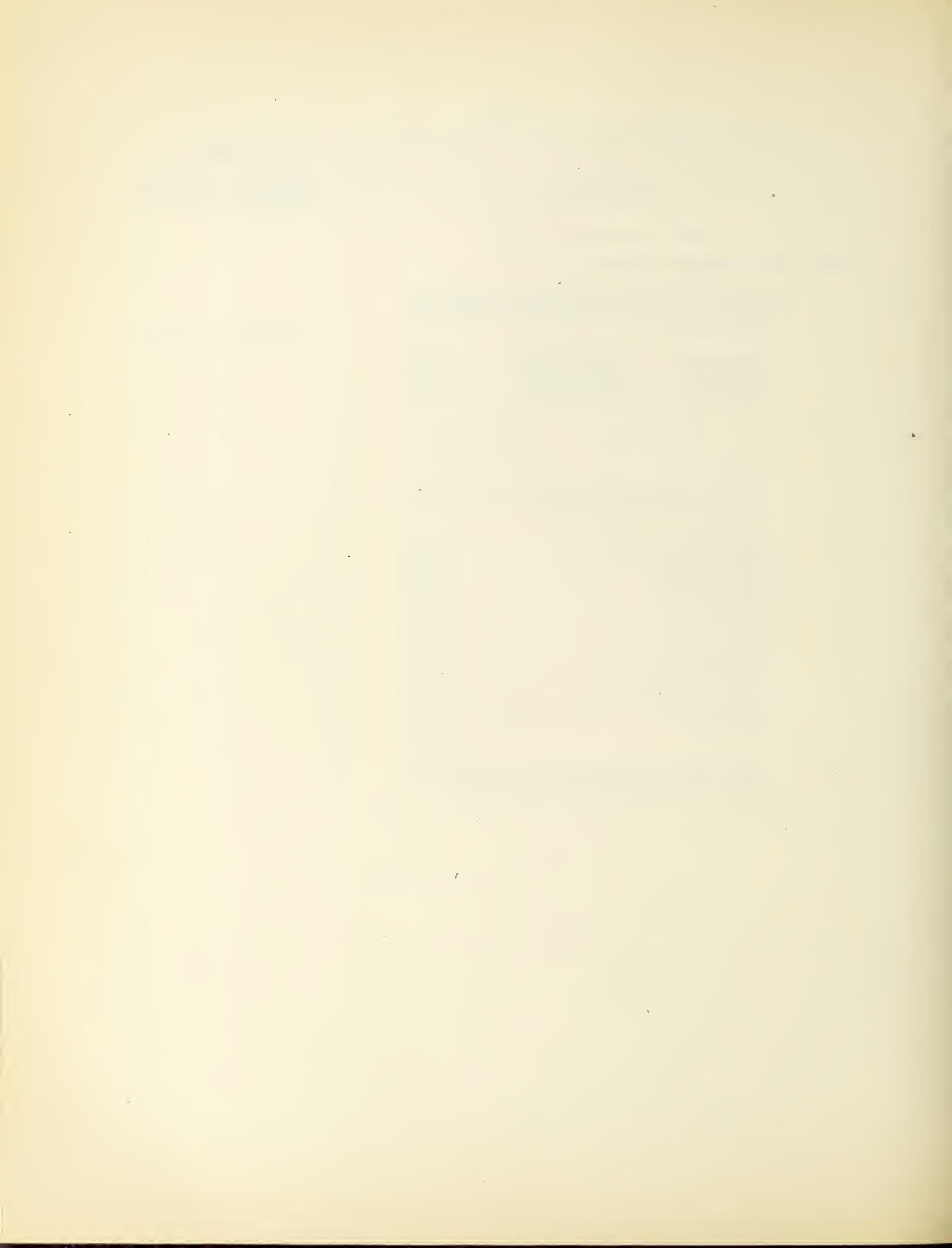
Office.	Horse-drawn or motor propelled.	Appropriation.	For maintenance, repair, and operation.			Public purpose for which intended.	Officials and em- ployees by whom used.
			Num- ber.	Description.	Amount.		
Secretary's office.....	Horse-drawn	Miscellaneous ex- penses, De- partment of Agriculture.	1 1 2	Brougham . Surrey..... Victoria..... Carriages....	\$600	Personal transpor- tation on official business.	Secretary and Acting Secretary of Agriculture, Washington, D. C.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<b>RENT IN THE DISTRICT OF COLUMBIA.</b>		
<i>Rent of Buildings, Department of Agriculture—</i>		
For rent of buildings and parts of buildings in the District of Columbia, for use of the various bureaus, divisions, and offices of the Department of Agriculture ( <i>act Oct. 1, 1918, vol. 40, p. 998, sec. 1</i> )-----	\$158,689.00	\$158,689.00
Appropriation for 1913..... \$95,329   Estimate for 1913..... \$95,329		
Appropriation for 1914..... 98,329   Estimate for 1914..... 95,329		
Appropriation for 1915..... 108,329   Estimate for 1915..... 115,829		
Appropriation for 1916..... 123,689   Estimate for 1916..... 123,689		
Appropriation for 1917..... 123,689   Estimate for 1917..... 123,689		
Appropriation for 1918..... 143,689   Estimate for 1918..... 143,689		
Appropriation for 1919..... 158,689   Estimate for 1919..... 158,689		
Appropriation for 1920..... 158,689   Estimate for 1920..... 158,689		
<hr/>		
Other objects of expenditure.	Estimated, 1920.	Expended, 1918.
Rent of buildings.....	\$158,689.00	\$142,595.94
<hr/>		
<i>Statement showing estimated amounts that will be paid from the above appropriation during the fiscal year 1919 for quarters to be occupied by the various branches of the department (38 Stat., p. 1108).</i>		
Bureau of Markets.....	\$26,442.75	
Library, Department of Agriculture.....	5,512.00	
Bureau of Biological Survey.....	4,199.00	
Division of Publications.....	7,585.00	
Bureau of Plant Industry.....	28,814.00	
Bureau of Crop Estimates.....	1,583.00	
States Relations Service.....	16,029.00	
Forest Service.....	23,190.00	
Bureau of Chemistry.....	19,660.00	
Bureau of Animal Industry.....	4,665.25	
Bureau of Soils.....	585.00	
Bureau of Public Roads.....	9,799.00	
Office of the Solicitor.....	3,000.00	
Insecticide and Fungicide Board.....	2,650.00	
Federal Horticultural Board.....	240.00	
Office of the Secretary.....	359.00	
Office of Farm Management.....	3,225.00	
Weather Bureau.....	500.00	
Emergency rentals.....	651.00	
	158,689.00	

NOTE.—For statement of all buildings and parts of buildings in the District of Columbia rented by the Department of Agriculture, see also Appendix C in the Book of Estimates and pages 285 of this book.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
STATES RELATIONS SERVICE.		
<i>Salaries, States Relations Service—</i>		
(1) One director ( <i>R. S., p. 87, secs. 520-523; act Oct. 1, 1918, vol. 40, p. 998, sec. 1</i> )-----	\$4, 500. 00	
(2) One chief clerk ( <i>same acts</i> )-----	2, 000. 00	
(3) One clerk or chief accountant (by transfer from lump fund for general administrative expenses) ( <i>same acts</i> )-----	2, 400. 00	
(4) One financial clerk ( <i>same acts</i> )-----	2, 000. 00	
(5) One clerk (by transfer from lump fund for farmers' cooperative demonstrations in South) ( <i>same acts</i> )-----	1, 980. 00	
(6) One clerk or proof reader ( <i>same acts</i> )-----	1, 800. 00	
(7) Four clerks, class 4 ( <i>same acts</i> )-----	7, 200. 00	
(8) Eleven clerks, class 3 (increase of 3 by transfer of 1 each from lump funds for general administrative expenses, colleges and stations, and farmers' cooperative demonstrations in North and West) ( <i>same acts</i> )-----	17, 600. 00	
(9) Two clerks, at \$1,500 each ( <i>same acts</i> )-----	3, 000. 00	
(10) Thirteen clerks, class 2 (increase of 1 by transfer from lump fund for general administrative expenses) ( <i>same acts</i> )-----	18, 200. 00	
(11) Two clerks, at \$1,320 each (by transfer from lump fund for home economics) ( <i>same acts</i> )-----	2, 640. 00	
(12) One clerk ( <i>same acts</i> )-----	1, 260. 00	
(13) Thirty-six clerks, class 1 (increase of 5 by transfer from lump funds, 1 from colleges and stations, 1 from farmers' cooperative demonstrations in North and West, 2 from farmers' cooperative demonstrations in South, and 1 from home economics) ( <i>same acts</i> )-----	43, 200. 00	
(14) Three clerks at \$1,100 each (increase of 2 by transfer of 1 each from lump funds for colleges and stations and general administrative expenses) ( <i>same acts</i> )-----	3, 300. 00	
(15) Thirty-nine clerks, at \$1,000 each ( <i>same acts</i> )-----	39, 000. 00	
(16) Thirty-one clerks, at \$900 each ( <i>same acts</i> )-----	27, 900. 00	
(17) One clerk or lantern-slide colorist ( <i>same acts</i> )-----	900. 00	
(18) Three clerks, at \$840 each ( <i>same acts</i> )-----	2, 520. 00	
(19) Two clerks, at \$720 each ( <i>same acts</i> )-----	1, 440. 00	
(20) Five messengers, messenger boys, or laborers, at \$720 each (increase of 2 by transfer of 2 laborers from lump funds, 1 from farmers' cooperative demonstrations in North and West, and 1 from farmers' cooperative demonstrations in South) ( <i>same acts</i> )-----	3, 600. 00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, States Relations Service—Continued.</i>		
(21) Five messengers, messenger boys, or laborers, at \$600 each ( <i>R. S., p. 87, secs. 520–523; act Oct. 1, 1918, vol. 40, p. 998, sec. 1</i> )-----	\$3,000.00	
(22) Sixteen messengers, messenger boys, or laborers, at \$480 each ( <i>same acts</i> )-----	7,680.00	
(23) One messenger, messenger boy, or laborer ( <i>same acts</i> )-----	360.00	
(24) Three messengers, messenger boys, or laborers, at \$300 each ( <i>same acts</i> )-----	900.00	
(25) One skilled laborer ( <i>same acts</i> )-----	900.00	
(26) Four laborers or charwomen, at \$480 each ( <i>same acts</i> )-----	1,920.00	
(27) Eleven laborers or charwomen, at \$240 each ( <i>same acts</i> )-----	2,640.00	
Appropriations for 1910.....\$39,260  Estimates for 1911.....\$46,180	\$203,840.00	\$180,980.00
Appropriations for 1911.....46,180  Estimates for 1912.....56,500		
Appropriations for 1912.....56,500  Estimates for 1913.....59,840		
Appropriations for 1913.....58,240  Estimates for 1914.....66,740		
Appropriations for 1914.....66,160  Estimates for 1915.....68,840		
Appropriations for 1915.....68,840  Estimates for 1916.....103,140		
Appropriations for 1916.....103,140  Estimates for 1917.....127,700		
Appropriations for 1917.....127,540  Estimates for 1918.....137,740		
Appropriations for 1918.....135,080  Estimates for 1919.....180,980		
Appropriations for 1919.....180,980  Estimates for 1920.....203,840		

NOTE.—Apparent increase, \$22,860; no actual increase, as follows:

*Transfers from lump funds of this bureau, which funds have been correspondingly reduced.*

1 clerk or chief accountant, from general administrative expenses.	\$2,400
1 clerk, from farmers' cooperative demonstrations in South.....	1,980
3 clerks, class 3, from general administrative expenses, colleges and stations, and farmers' cooperative demonstrations in North and West.....	4,800
1 clerk, class 2, from general administrative expenses.....	1,400
2 clerks, at \$1,320 each, from home economics.....	2,640
5 clerks, class 1, 1 from colleges and stations, 1 from farmers' cooperative demonstrations in North and West, 2 from farmers' cooperative demonstrations in South, and 1 from home economics.....	6,000
2 clerks, at \$1,100 each, from colleges and stations and general administrative expenses.....	2,200
2 laborers, at \$720 each, from farmers' cooperative demonstrations in North and West and farmers' cooperative demonstrations in South.....	1,440
Apparent increase.....	22,860

## SUPPLEMENTAL ESTIMATE.

*Promotions:*

(28) 1 chief clerk, \$2,000 to \$2,400-----	\$400
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(The salary recommended in this case is less than that paid for similar service in other bureaus of equal rank. This employee has been in the department 20 years. She has had no advance in salary for 7 years, during which time the duties and responsibilities of her position have steadily grown, with an increase in the number of employees from 200 to nearly 7,000 and an increase in appropriations from \$424,000 to nearly \$8,000,000.)

(29) 5 clerks, \$900 to \$1,000 each -----	500
--	-----

(The above promotions and those which follow are recommended in order that the salaries of the respective positions may conform to the minimum salary recommended for such positions, as set forth in the general note regarding minimum salaries. To accomplish this result a number of changes in title will be necessary and are indicated.)



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, States Relations Service—Continued.</i>		
<i>Promotions—Continued.</i>		
(30) 1 clerk, \$900, to 1 clerk or addressograph operator, \$1,000	\$100	
(See preceding note.)		
(31) 1 clerk or lantern-slide colorist, \$900, to 1 clerk, \$1,000.	100	
(See preceding note.)		
(32) 5 messengers, messenger boys, or laborers, at \$720 each, to 5 messengers or laborers, at \$900 each	900	
(See preceding note.)		
(33) 1 messenger, messenger boy, or laborer, \$480, to 1 messenger or laborer, \$900	420	
(See preceding note.)		
(34) 1 skilled laborer, \$900 to \$1,000	100	
(See preceding note.)		
<i>New places:</i>		
(35) 12 clerks, class 2	16,800	
(These places and 2 clerks, class 1, 3 messengers or laborers at \$900 each, and 2 messenger boys at \$720 each, are submitted, in lieu of 20 clerks at \$900 each, 1 messenger, messenger boy or laborer, \$360; 3 messengers, messenger boys or laborers, at \$300 each; 3 clerks, at \$840 each, and 2 clerks, at \$720 each, dropped as below. This readjustment requires a net increase for statutory salaries of only \$120 and will result in a better-balanced salary scale. In order to secure competent clerks, it has been found necessary to appoint them on lump-fund rolls at salaries in excess of \$900. It is also no longer possible to obtain messenger boys, or laborers, at \$300 and \$360. There are at present a number of vacancies in these low-salaried positions.)		
(36) 2 clerks, class 1	2,400	
(See preceding note.)		
(37) 3 messengers or laborers, at \$900 each	2,700	
(See preceding note.)		
(38) 2 messenger boys, at \$720 each	1,440	\$25,860
(See preceding note.)		
<i>Places dropped:</i>		
(39) 20 clerks, at \$900 each	18,000	
(These places and those which follow are recommended omitted, and nineteen higher-salaried places have been substituted therefor, as indicated in the note under item 35.)		
(40) 1 messenger, messenger boy, or laborer	360	
(See note under item 35.)		
(41) 3 messengers, messenger boys, or laborers, at \$300 each	900	
(See note under item 35.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, States Relations Service—Continued.</i>		
<i>Places dropped—Continued.</i>		
(42) 3 clerks, at \$840 each . . . . .	\$2,520	
(See note under item 35.)		
(43) 2 clerks, at \$720 each . . . . .	\$1,440	
(See note under item 35.)	———	\$23,220
Net increase . . . . .	2,640	
<i>Changes in title:</i>		
(44) 1 financial clerk, \$2,000, to 1 executive clerk, \$2,000.		
(The employee now occupying this place is not a financial clerk. "Executive clerk" better describes the duties of the position. The latter title will also permit more flexibility in filling this place in case it becomes vacant at any time.)		
(45) 5 messengers, messenger boys, or laborers, at \$600 each, to 5 messenger boys or charwomen, at \$600 each.		
(The changes in title indicated above, and those immediately following are desirable in view of the plan for fixing minimum salaries.)		
(46) 15 messengers, messenger boys, or laborers, at \$480 each, to 15 messenger boys or charwomen, at \$480 each.		
(See preceding note.)		
(47) 4 laborers or charwomen, at \$480 each, to 4 charwomen, at \$480 each.		
(These changes and those which follow are recommended in order that the title of the respective positions may indicate clearly the character of work performed.)		
(48) 11 laborers or charwomen, at \$240 each, to 11 charwomen, at \$240 each.		
(See preceding note.)		
<i>General Expenses, States Relations Service—</i>		
(49) To carry into effect the provisions of an Act approved March second, eighteen hundred and eighty-seven, entitled "An Act to establish agricultural experiment stations in connection with the colleges established in the several States under the provisions of an Act approved July second, eighteen hundred and sixty-two, and of the Acts supplementary thereto," the sums apportioned to the several States and Territories, to be paid quarterly in advance ( <i>acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Oct. 1, 1918, vol. 40, p. 998, sec. 1</i> ) . . . . .	\$720,000.00	
(50) To carry into effect the provisions of an Act approved March sixteenth, nineteen hundred and six, entitled "An Act to provide for an increased annual appropriation for agricultural experiment stations and regulating the expenditure thereof," the sums apportioned to the several States and Territories, to be paid quarterly in advance, \$720,000: <i>Provided</i> , That not to exceed \$15,000 shall be paid to each State and Territory under this Act ( <i>acts Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; Oct. 1, 1918, vol. 40, p. 998, sec. 1</i> ) . . . . .	720,000.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, States Relations Service—Continued.*

- (51) **Provided further**, That hereafter the Secretary of Agriculture be, and he is hereby, authorized and directed to certify to the Secretary of the Treasury for payment, and the Secretary of the Treasury is authorized and directed to pay the appropriation for the fiscal year ending June thirtieth, nineteen hundred and eighteen, and all future appropriations, to the Georgia Experiment Station, as authorized by the Act of March second, eighteen hundred and eighty-seven (Twenty-fourth Statutes, page four hundred and forty), commonly referred to as the Hatch Act, and the Act of March sixteenth, nineteen hundred and six (Thirty-fourth Statutes, page sixty-three), known as the Adams Act, and all amendments to said Acts, in accordance with the act of the General Assembly of Georgia, approved December twenty-ninth, eighteen hundred and eighty-eight, establishing the Georgia Experiment Station, and the act of August eighteenth, nineteen hundred and six, accepting the benefits of the Adams Act (Georgia laws, nineteen hundred and six, page eleven hundred and sixty-one): *Provided further*, That nothing herein shall be construed as limiting the authority of the Secretary of Agriculture over and respecting the supervision of the operation of the said Georgia Experiment Station as set forth in said Acts of Congress.■

NOTE.—The above paragraph is permanent legislation and is therefore omitted.

- (52) To enable the Secretary of Agriculture to enforce the provisions of the above Acts and the Act approved May eighth, nineteen hundred and fourteen, entitled "An Act to provide for cooperative agricultural extension work between the agricultural colleges in the several States receiving the benefits of an Act of Congress approved July second, eighteen hundred and sixty-two, and of Acts supplementary thereto, and the United States Department of Agriculture," relative to their administration and for the administration of agricultural experiment stations in Alaska, Hawaii, Porto Rico, the island of Guam, and the Virgin Islands of the United States, including the employment of clerks, assistants, and other persons in the city of Washington and elsewhere, freight and express charges, official traveling expenses, office fixtures, supplies, apparatus, telegraph and telephone service, gas, electric current, and rent outside of the District of Columbia, [§68,500] \$74,600; and the Secretary of Agriculture shall prescribe the form of the annual financial statement required under the above Acts, ascertain whether the expenditures are in accordance with their provisions, coordinate the work of the Department of Agriculture with that of the State agricultural colleges and experiment stations in the lines authorized in said Acts, and make report thereon to Congress (*acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; Oct. 1, 1918, vol. 40, p. 999, sec. 1*) ----- \$74,600.00

NOTE.—There is an apparent increase in this item of \$6,100, but taking into consideration the transfers to the statutory roll of 1 clerk of class 3, 1 clerk of class 1, and 1 clerk at \$1,100, aggregating \$3,900, the actual increase is \$10,000. This sum is needed for the administration of the agricultural extension act in view of the increase of Federal and State Smith-Lever



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<b>General Expenses, States Relations Service—Continued.</b>		
funds by \$1,000,000 for next year and the added amount of inspection of the college extension work and accounts, preparation of reports, etc., that will be entailed. During the fiscal year 1920 this will involve business in the aforesaid lines in connection with the expenditure of \$5,680,000 of Federal and State funds under the agricultural extension Act, an increase of \$1,000,000 over the present fiscal year and of \$2,000,000 since the fund for administering this work was fixed at \$30,000. With each increase in these funds there is a corresponding increase in the expense involved in properly inspecting the work and expenditures of the extension divisions of the various State colleges, due to the fact that more time must be devoted to such inspection and that traveling and other expenses are higher.		
<b>Employees.</b>	<b>Rate.</b>	<b>Estimated, 1920.</b>
		<b>Expended, 1918.</b>
Salaries:		<i>Number.</i>
Agricultural chemist and chief.....per annum..	\$4,000.00	1
Agriculturist and assistant chief.....do.....	3,500.00	1(parttime)
Agricultural physicist.....do.....	3,240.00	1(parttime)
Agriculturists.....do.....	3,000.00	3(parttime)
Agriculturists.....do.....	2,760.00	2(parttime)
Agriculturists.....do.....	2,640.00	3(parttime)
Agriculturist.....do.....	2,520.00	1
Specialist in botany.....do.....	3,500.00	1
Specialist in botany.....do.....	3,240.00	1
Extension specialist.....do.....	2,760.00	1
Extension specialist.....do.....	2,520.00	1
Extension specialist.....do.....	2,500.00	1
Scientific assistant.....do.....	3,000.00	1
Scientific assistant.....do.....	2,640.00	1
Scientific assistant.....do.....	2,580.00	1
Scientific assistant.....do.....	2,520.00	1
Scientific assistants.....do.....	2,400.00	3
Scientific assistants.....do.....	2,220.00	1
Scientific assistant.....do.....	2,160.00	2
Scientific assistant.....do.....	1,980.00	1
Scientific assistant.....do.....	1,920.00	1(parttime)
Scientific assistants.....do.....	1,800.00	5 (2 new)
Scientific assistant.....do.....	1,740.00	3(1pt.time)
Scientific assistant.....do.....	1,620.00	1
Scientific assistant.....do.....	1,500.00	1
Scientific assistant.....do.....	1,380.00	1
Scientific assistant.....do.....	1,200.00	1(parttime)
Clerk.....do.....	1,980.00	1(parttime)
Clerk*.....do.....	1,600.00	1
Clerk†.....do.....	1,200.00	1
Clerk.....do.....	1,200.00	2
Clerk†.....do.....	1,100.00	1(parttime)
Clerks.....do.....	1,100.00	1(parttime)
Clerk*.....do.....	1,000.00	2
Clerks.....do.....	1,000.00	5 (1 temp.; 4 pt.time)
Clerk*.....do.....	900.00	1
Clerks, messenger boys, and charwomen, \$900 to \$240 .....	3 (temp.)	4 (temp.)
	38	48
Salaries.....	\$64,000.00	\$56,037.16
Other objects of expenditure:		
Stationery.....	650.00	374.26
Traveling expenses.....	8,680.00	3,424.07
Equipment and material.....	650.00	419.38
Miscellaneous items.....	620.00	357.10
Total.....	74,600.00	60,611.97

\*Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, States Relations Service—Continued.*

- (53) For farmers' cooperative demonstration work outside of the cotton belt, including the employment of labor in the city of Washington and elsewhere, supplies, and all other necessary expenses [§554.800] (acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; Oct. 1, 1918, vol. 40, p. 999, sec. 1) ----- \$551,280.00

NOTE.—There is an apparent decrease in the above item of \$3,520, due to transfers to the statutory roll of 1 clerk of class 3, 1 clerk of class 1, and 1 laborer at \$720.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Agriculturist and chief.....per annum..	\$4,000.00	1	..
Agriculturist and chief.....do.....	3,720.00	..	1
Agriculturist and assistant chief.....do.....	3,540.00	1	1
Agriculturists.....do.....	3,000.00	4	4
Agriculturists.....do.....	2,760.00	1	1
Agriculturists.....do.....	2,700.00	4 (3 new)	1
Agriculturist.....do.....	2,520.00	..	1 (temp.)
Agriculturist.....do.....	2,400.00	1	1
Agriculturist.....do.....	2,220.00	1	1
Agriculturist.....do.....	2,100.00	1	1
Agriculturist.....do.....	1,860.00	1	..
Agriculturist.....do.....	1,500.00	1	1
Agriculturist.....do.....	1,300.00	1	..
Agriculturist.....do.....	1,200.00	1	1
Expert.....do.....	2,750.00	..	1 (temp.)
Extension specialist.....do.....	3,240.00	1	..
Extension specialist.....do.....	3,000.00	..	1
Extension specialist.....do.....	2,760.00	1	1
Extension specialist.....do.....	2,700.00	1	1
Extension specialist.....do.....	2,500.00	1	1
Extension specialist.....do.....	2,400.00	..	1 (temp.)
Extension specialist.....do.....	2,100.00	1	..
Extension specialist.....do.....	2,040.00	1	1
Extension specialist.....do.....	1,800.00	2	1 (pt. time)
Extension specialists.....do.....	1,620.00	..	4 (1 temp.; 1 part time)
Extension specialist.....do.....	1,500.00	..	1 (temp.)
Agent.....do.....	2,850.00	1	1
Agent.....do.....	2,496.00	1	..
Agent.....do.....	2,400.00	1	..
Agents.....do.....	2,204.00	2	..
Agents.....do.....	2,100.00	2	1
Agent.....do.....	2,004.00	1	..
Agent.....do.....	2,000.00	1	1
Agent.....do.....	1,980.00	1	1
Agents.....do.....	1,800.00	8	6
Agent.....do.....	1,750.00	1	1
Agent.....do.....	1,740.00	1	1
Agent.....do.....	1,704.00	1	..
Agent.....do.....	1,700.00	1	..
Agent.....do.....	1,650.00	1	1
Agent.....do.....	1,600.00	1	1
Agent.....do.....	1,560.00	1	1
Agent.....do.....	1,550.00	1	1
Agent.....do.....	1,524.00	1	..
Agents.....do.....	1,500.00	18	12
Agent.....do.....	1,430.00	1	..
Agent.....do.....	1,404.00	1	..
Agents.....do.....	1,400.00	4	3
Agent.....do.....	1,320.00	1	1
Agent.....do.....	1,300.00	3	1
Agent.....do.....	1,272.00	1	..
Agent.....do.....	1,250.00	1	..
Agents.....do.....	1,200.00	59	35
Agent.....do.....	1,176.00	1	..
Agent.....do.....	1,150.00	1	..
Agent.....do.....	1,140.00	1	..
Agents.....do.....	1,104.00	2	1
Agents.....do.....	1,100.00	2	1
Agents.....do.....	1,080.00	3	1
Agent.....do.....	1,060.00	1	1
Agents.....do.....	1,020.00	3	..
Agents.....do.....	1,008.00	9	3
Agents.....do.....	1,000.00	5	3
Agriculturists, scientific assistants, agents, and collaborators, \$996 to \$1.....do.....	372	250	
Clerk*.....do.....	1,800.00	..	1
Clerk.....do.....	1,650.00	..	1 (temp.)
Clerks*.....do.....	1,600.00	..	2
Clerk†.....do.....	1,600.00	..	1

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, States Relations Service—Continued.**Farmers' cooperative demonstration work, N. and W.—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries—Continued.			
Clerk*.....per annum..	1,500.00	..	Number.
Clerk*.....do..	1,260.00	..	1
Clerks*.....do..	1,200.00	..	1
Clerks*.....do..	1,200.00	..	2
Clerks.....do..	1,200.00	2 (temp.)	1
Clerk*.....do..	1,100.00	..	2 (temp.)
Clerk.....do..	1,080.00	..	1
Clerks*.....do..	1,000.00	..	1 (temp.)
Clerk.....do..	1,000.00	..	7
Clerk*.....do..	900.00	..	4 (temp.)
Messenger boys*.....do..	480.00	..	1
Charwoman*.....do..	240.00	..	4
Clerks, watchmen, messenger boys, and charwomen, \$900 to \$480.....do..		6 (temp.)	1
Wages:			
Laborer*.....do..	480.00	..	7 (temp.)
Miscellaneous temporary labor. { per diem	300.00	2	1
	4 to 2		28
		552	2
			424
Salaries.....		\$481,180.00	\$473,371.66
Wages.....		300.00	2,309.44
Other objects of expenditure:			
Stationery.....		5,000.00	4,986.76
Traveling expenses.....		50,000.00	45,141.13
Equipment and material.....		7,600.00	2,319.68
Miscellaneous items.....		7,200.00	9,549.14
Total.....		551,280.00	537,677.81

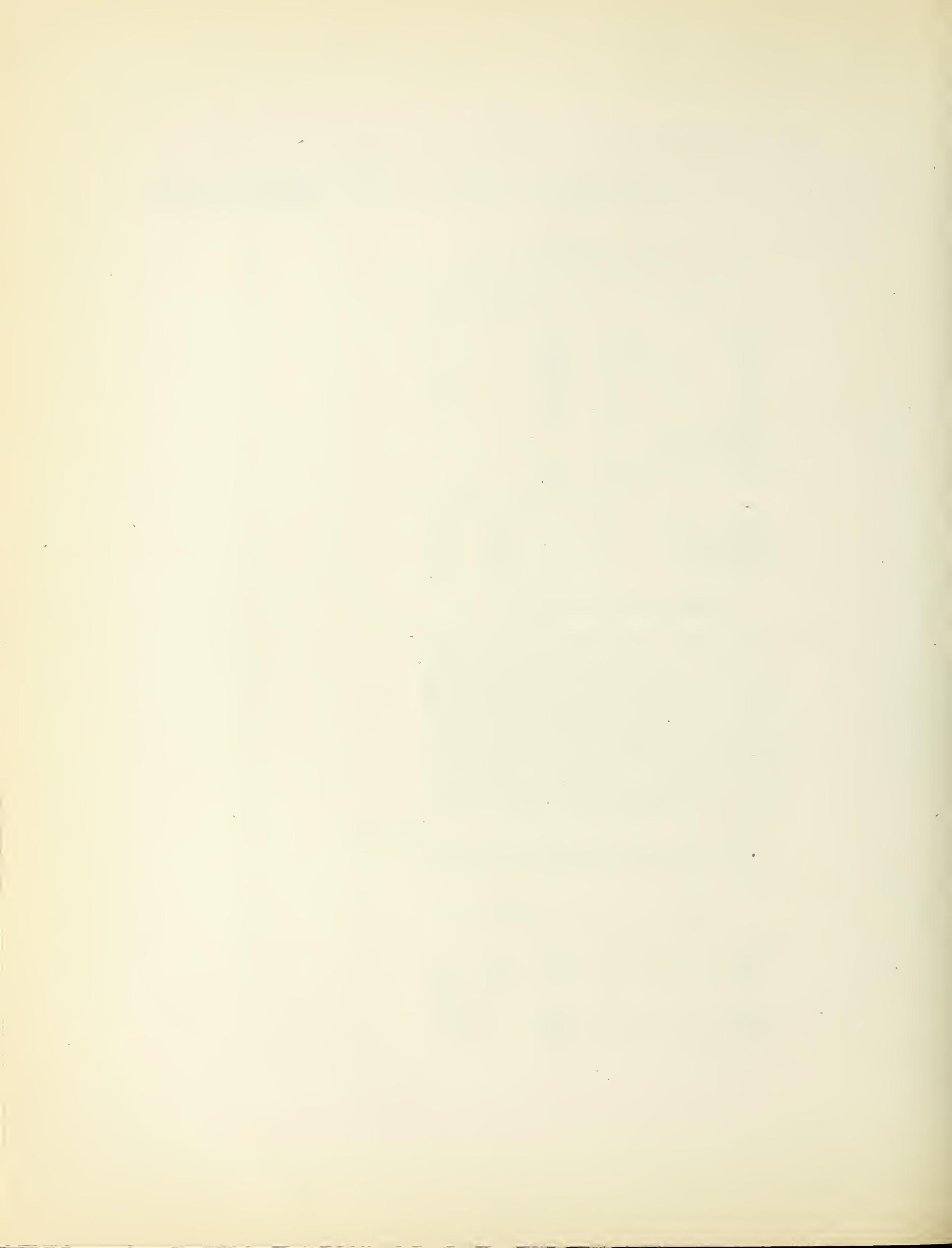
\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.

- (54) For farmers' cooperative demonstrations and for the study and demonstration of the best methods of meeting the ravages of the cotton-boll weevil, including the employment of labor in the city of Washington and elsewhere, supplies, and all other necessary expenses, [§650,140] §645,040: *Provided*. That the expense of such service shall be defrayed from this appropriation and such cooperative funds as may be voluntarily contributed by State, county, and municipal agencies, associations of farmers, and individual farmers, universities, colleges, boards of trade, chambers of commerce, other local associations of business men, business organizations, and individuals within the State (acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; Oct. 1, 1918, vol. 40, p. 999, sec. 1) ----- \$645,040.00

NOTE.—There is an apparent decrease in the above item of \$5,100, due to transfers to the statutory roll of 1 clerk at \$1,980, 2 clerks of class 1, and 1 laborer at \$720.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Agriculturist and chief.....per annum..	\$4,000.00	1	Number.
Agriculturist and assistant chief.....do..	3,500.00	1 (pt. time)	1 (pt. time)
Agriculturists.....do..	3,000.00	4 (3 part time)	3 (2 part time)
Agriculturists.....do..	2,760.00	1	2 (1 part time; 1 temp.)
Agriculturist.....do..	2,700.00	1	1
Agriculturist.....do..	2,640.00	..	1 (pt. time)
Agriculturist.....do..	2,580.00	..	1
Expert.....do..	4,500.00	..	1 (temp.)
Extension specialist.....do..	2,400.00	..	1



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.			
<i>General Expenses, States Relations Service—Continued.</i>					
<i>Farmers' cooperative demonstration work, South—Continued.</i>					
	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	
			Number.	Number.	
Salaries—Continued.					
Extension specialist.....do.....		2,300.00	1	1	
Extension specialist.....do.....		2,280.00	1	—	
Extension specialist.....do.....		2,040.00	—	1	
Extension specialist.....per annum.....do.....		1,920.00	1	—	
Extension specialists.....do.....		1,800.00	1	4 (1 part time; 1 temp.)	
Extension specialists.....do.....		1,380.00	—	2 (temp.)	
Scientific assistant.....do.....		1,980.00	1	1	
Agent.....do.....		3,000.00	1	1	
Agents.....do.....		2,400.00	3	3	
Agent.....do.....		2,304.00	1 (temp.)	1 (temp.)	
Agent.....do.....		2,200.00	1	1	
Agent.....do.....		2,160.00	1	1	
Agents.....do.....		2,100.00	3	3	
Agent.....do.....		2,080.00	1	1	
Agent.....do.....		2,004.00	8 (4 temp.)	8 (4 temp.)	
Agent.....do.....		2,000.00	1	1	
Agents.....do.....		1,980.00	6	6	
Agents.....do.....		1,920.00	2 (1 temp.)	2 (1 temp.)	
Agent.....do.....		1,880.00	1	1	
Agents.....do.....		1,800.00	8 (1 temp.)	8 (1 temp.)	
Agent.....do.....		1,750.00	1	1	
Agents.....do.....		1,740.00	3 (temp.)	3 (temp.)	
Agents.....do.....		1,620.00	3	3	
Agent.....do.....		1,596.00	1	1	
Agent.....do.....		1,584.00	1	1	
Agents.....do.....		1,500.00	6	6	
Agent.....do.....		1,496.00	1	1	
Agent.....do.....		1,440.00	1	1	
Agents.....do.....		1,404.00	3	3	
Agents.....do.....		1,380.00	3	3	
Agent.....do.....		1,300.00	1	1	
Agents.....do.....		1,296.00	2	2	
Agents.....do.....		1,248.00	2	2	
Agents.....do.....		1,200.00	24 (1 temp.)	24 (1 temp.)	
Agent.....do.....		1,170.00	1	1	
Agent.....do.....		1,104.00	1	1	
Agents, \$1,080 to \$1,000.....do.....		47(35 temp.)	47(35 temp.)		
Agents and collaborators, \$960 to \$60.....do.....		980(285 temp.)	\$74(239 temp.)		
Clerk†.....do.....		1,980.00	—	1	
Clerk*.....do.....		1,400.00	—	1	
Clerk.....do.....		1,400.00	—	1 (temp.)	
Clerk*.....do.....		1,200.00	—	1	
Clerk†.....do.....		1,200.00	—	1 (pt. time)	
Clerk.....do.....		1,200.00	—	1 (temp.)	
Clerks*.....do.....		1,000.00	—	4	
Clerks.....do.....		1,000.00	—	4 (3 part time; 1 temp.)	
Clerk*.....do.....		900.00	—	1	
Multigraph operator.....do.....		1,000.00	—	1 (temp.)	
Messenger boy*.....do.....		720.00	—	1	
Clerks, addressograph operator, watchmen, messenger boys, charwomen, \$900 to \$240.....do.....		6 (temp.)	13 (temp.)		
Wages:					
Laborer†.....do.....		720.00	—	1	
Laborer*.....do.....		480.00	—	1	
Miscellaneous temporary labor { per diem.....		300.00	—	34	
		4 to 3.12	2	2	
			1,139	1,101	
Salaries.....			\$505,438.88	\$310,068.25	
Wages.....			500.00	2,637.67	
Other objects of expenditure:					
Stationery.....			3,426.85	1,713.32	
Traveling expenses.....			125,100.56	113,375.07	
Equipment and material.....			6,853.71	3,865.22	
Miscellaneous items.....			3,720.00	6,651.23	
Total.....			645,040.00	638,310.76	

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

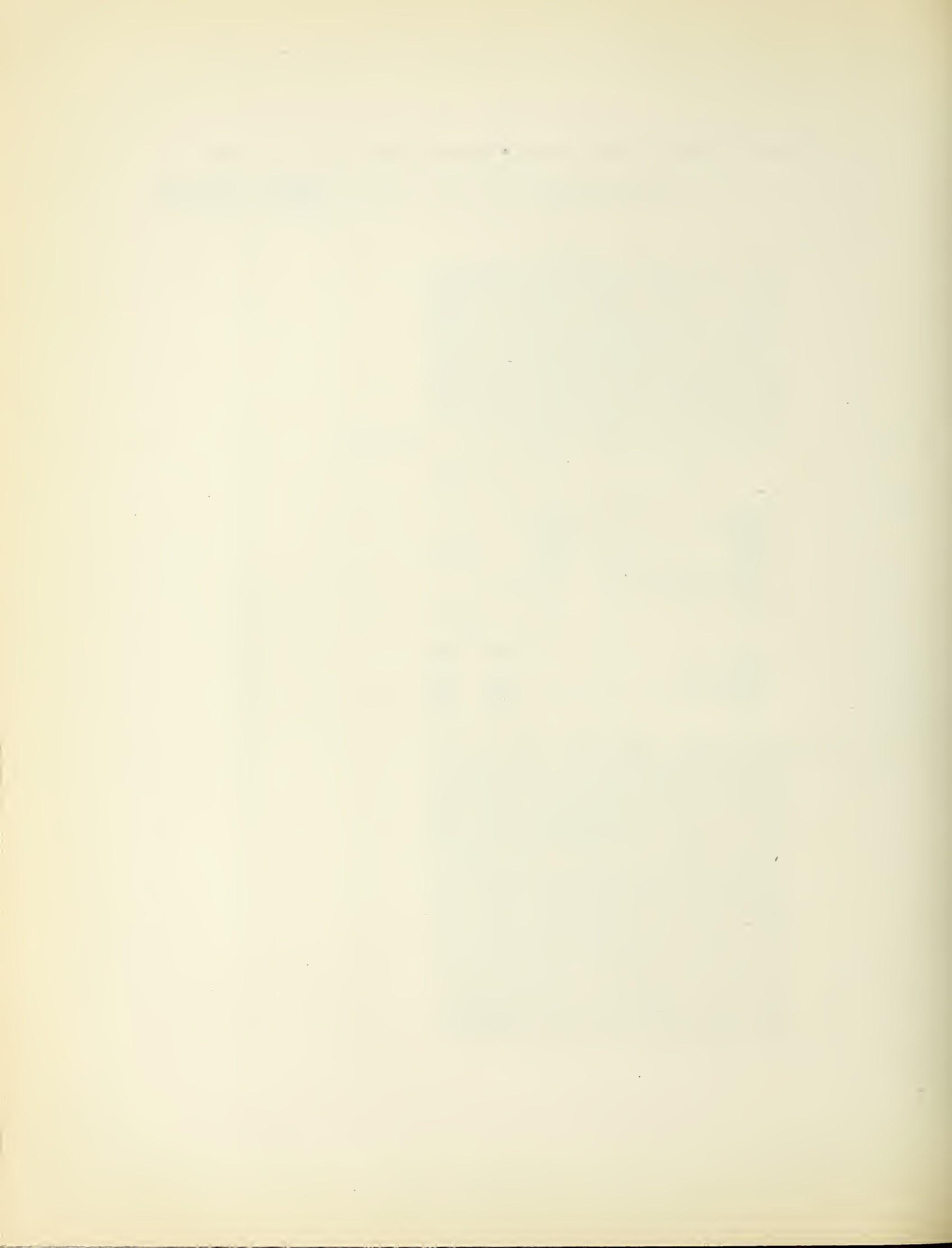
General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, States Relations Service—Continued.*

- (55) To enable the Secretary of Agriculture to investigate and report upon the organization and progress of farmers' institutes and agricultural schools in the several States and Territories, and upon similar organizations in foreign countries, with special suggestions of plans and methods for making such organizations more effective for the dissemination of the results of the work of the Department of Agriculture and the agricultural experiment stations, and of improved methods of agricultural practice, including the employment of labor in the city of Washington and elsewhere, and all other necessary expenses (*acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; Oct. 1, 1918, vol. 40, p. 999, sec. 1*) ----- \$20,600.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Chief specialist.....per annum..	\$3,500.00	1	..
Chief specialist.....do.....	2,580.00	..	1 (temp.)
Specialists.....do.....	3,000.00	2 (new)	..
Specialist.....do.....	2,500.00	1 (new)	..
Specialists.....do.....	2,400.00	2	..
Specialist.....do.....	2,000.00	..	4 (3 temp.)
Specialist.....do.....	1,980.00	..	1 (part time)
Specialist.....per diem..	7.50	1 (temp.)	1 (temp.)
Clerk.....per annum..	1,100.00	1 (temp.)	..
Clerks, map colorist, messenger boy, and collaborators, \$900 to \$1.....do.....	..	20 (2 temp.)	20 (2 temp.)
Wages:			
Painter.....per diem..	3.50	..	1 (temp.)
		28	28
Salaries.....		\$15,700.00	\$9,356.73
Wages.....			210.00
Other objects of expenditure:			
Stationery.....	350.00	276.67	
Traveling expenses.....	2,000.00	1,556.52	
Equipment and material.....	1,200.00	918.47	
Miscellaneous items.....	1,350.00	1,263.42	
Total.....	20,600.00	13,581.81	

- (56) To enable the Secretary of Agriculture to establish and maintain agricultural experiment stations in Alaska, Hawaii, Porto Rico, the island of Guam, and the Virgin Islands of the United States, including the erection of buildings, the preparation, illustration, and distribution of reports and bulletins, and all other necessary expenses, [[\$190,000]] \$215,000, as follows: Alaska, [[\$65,000]] \$75,000, of which \$10,000, or so much thereof as may be necessary, shall be immediately available for the erection of barns, purchase of breeding live stock, and other expenses connected with the stock-breeding experiments on the island of Kodiak and at the Matanuska station; Hawaii, [[\$45,000]] \$50,000; Porto Rico, [[\$45,000]] \$50,000; Guam, [[\$20,000]] \$25,000, of which \$5,000, or so much thereof as may be necessary, shall be immediately available to repair damage due to typhoon; and the Virgin Islands of the United States, \$15,000; and the Secretary of Agriculture is authorized to sell such products as are obtained on the land belonging to the agricultural experiment stations in Alaska, Hawaii, Porto Rico, the island of Guam, and the Virgin Islands of the United States: *Provided*, That of the sum herein appropriated for the experiment station in Hawaii \$7,500 may be used in agricultural extension work in Hawaii: *And provided further*, That here-



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<p><i>General Expenses, States Relations Service—Continued.</i></p> <p>after employees of the Department of Agriculture assigned to permanent duty in the Virgin Islands shall be entitled to the same privileges as to leave of absence as are conferred upon employees assigned to Alaska, Hawaii, Porto Rico, and Guam by the Act of June thirtieth, nineteen hundred and fourteen (Thirty-eighth Statutes at Large, page four hundred and forty-one), and if any employee of the agricultural experiment stations of the United States in Alaska, Hawaii, Porto Rico, Guam, or the Virgin Islands shall elect to postpone the taking of any or all of the annual leave to which he may be entitled under the said Act of June thirtieth, nineteen hundred and fourteen, he may, in the discretion of the Secretary of Agriculture, subject to the interests of the public service, be allowed to take at one time unused annual leave which may have accumulated within not to exceed four years, and be paid at the rate obtaining at the time the leave is granted (acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; Oct. 1, 1918, vol. 40, p. 999, sec. 1) . . . \$215,000.00</p>		

NOTE.—There is an increase in this item of \$25,000, which it is proposed to use as follows:

(a) \$10,000 for the Alaska stations. Experiments with live stock on the island of Kodiak during the past decade have demonstrated the possibility of producing beef cattle under local conditions. The department now maintains on this island a valuable herd of about 60 pure-bred Galloway cattle. About \$2,500 of the increase requested is needed for the erection of suitable sanitary barns for this herd. Department veterinarians who have visited the station to test the stock have condemned the cattle barns as insanitary and recommend their destruction. The present barns are temporary structures built as the herd increased with funds derived from the sale of products raised at the station. Sufficient funds have never been available for the erection of suitable permanent structures. An increase of \$1,000 for remodeling these barns was included in the appropriation act for 1919. Such repairs, however, will be of a make-shift nature at best and will only serve to put the barns into usable condition until permanent structures can be erected.

At the Matanuska station it is desired to take up dairying and pig raising. This region, recently opened up by the Government railroad, is believed to offer great possibilities for dairying. It is reported that more than 1,000 homesteads have been taken up in the Matanuska and Susitna Valleys, and the settlers have requested the station to undertake some work with live stock, especially to secure some pure-bred sires and to conduct experiments in dairying to determine its possibilities in the region. A stock barn, some clearing for pasture, and breeding stock are necessary in order to undertake the work on an adequate experimental basis. It is estimated that \$7,500 will be required for this purpose.

It is recommended that \$10,000 of the appropriation for the Alaska stations be made immediately available so as to promptly provide for the proposed new work at Kodiak and Matanuska. New language authorizing this expenditure has accordingly been added to the paragraph.

(b) \$5,000 for the Hawaii station. This amount is recommended in order to further develop the demonstration and extension work of the station. An additional man will be employed for extension work, largely on Oahu, the most populous island of the group, and the cooperative demonstration work on all the islands will be increased. Hawaii has many races of people who can be reached only through demonstrations and the example of leaders of their own race, a number of whom will be employed as collaborators of the department.

(c) \$5,000 for the Porto Rico station, to be used for the stimulation of food production on the islands for home consumption. The conditions for increasing the local production of many foods now imported from the mainland are believed to be very promising, and the station has a large amount of information that should be of value if properly disseminated. One or two men on a full-time basis will be added to the force of the station if this increase is allowed.

(d) \$5,000 for the Guam station. A serious typhoon visited the island on July 6, 1918, and from recent information it is learned that considerable damage was done to the residence of the superintendent, the engine house, and the storehouse, with slight damage to the office building, stable, and



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, States Relations Service—Continued.*

carriage shed. The poultry plant, fences, and all the small buildings were practically destroyed and the crops ruined. To restore the various structures a large amount of material and labor will be necessary. It is requested that this money be made immediately available in order that the damage may be repaired with as little delay as possible, and new language has been added to the paragraph accordingly.

A proviso has also been added which, if enacted, will grant to permanent employees of the department on the Virgin Islands the same privilege as to annual leave as that conferred upon employees assigned to Alaska, Porto Rico, Hawaii, and Guam. It will also permit the permanent employees at all these stations to take at one time unused annual leave which may have accumulated within not to exceed four years. Under the law at present employees of the department in the Virgin Islands are entitled to only 15 days' leave, whereas permanent employees at other insular stations are allowed 30 days.

For some time those in charge of these stations have urged a change in the law regarding leave of absence for the members of their staffs. Under the present limitation of 30 days' annual leave few of them take vacations, as there are few places they desire to visit that can be reached within the period allowed. In normal times two weeks is required for the trip from Hawaii, Porto Rico, and Virgin Islands stations to the nearest mainland port and return, and for the Alaska and Guam stations a much longer period is required. On account of the shortness of the time granted and the expense of the trip, many of the men have not been away from their stations for several years. The stations are all isolated, and the work is carried on under very monotonous conditions. The isolation and the enervating climate of the Tropics cause a rapid deterioration in capacity for research. Other departments and Governments have recognized this condition and have made more liberal provision for annual leave. It is reported that the Customs Service and the Labor and Immigration Service in Hawaii and Porto Rico grant additional leave to cover the time required on the voyage. Civilian employees of the War and Navy Departments located at stations outside the continental United States are granted more leave than those on the mainland. The Philippine and Canal Zone administrations are liberal in the matter of annual leave, and in addition they make allowance for the time required for transportation. The Naval Act approved Aug. 29, 1916 (Stat. at Large, 39, Pt. I, pp. 557, 558), provides for cumulative leave for civilian employees at stations outside the continental limits of the United States. It is believed that the enactment of the legislation proposed would serve to keep the men more contented and make possible the restoration of their mental and corporal vigor, besides increasing the efficiency of the personnel and removing a cause of frequent resignations, as it would give time for recuperation and for study at other institutions.

*Agricultural experiment station, Alaska.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Agronomist in charge.....per annum.....	\$3,500.00	1	1
Agents.....do.....	2,820.00	2	
Agents.....do.....	2,520.00	--	2
Agents.....do.....	2,280.00	2	--
Agent.....do.....	2,000.00	--	1
Agents.....do.....	1,920.00	2 (1 new)	1
Agent.....do.....	1,800.00	--	1 (temp.)
Agent.....do.....	1,500.00	1	1
Clerk.....do.....	1,500.00	1	1 (temp.)
Veterinarian.....do.....	2,000.00	1 (new)	--
Veterinary inspector.....do.....	1,440.00	--	1 (temp.)
Wages:			
Temporary labor.....per diem.....	7.50 to 2	30	25
		40	34
Salaries.....	\$22,540.00	\$18,975.26	
Wages.....	25,000.00	20,404.20	
Other objects of expenditure:			
Traveling expenses.....	3,500.00	2,012.28	
Equipment and material.....	15,000.00	12,568.02	
Miscellaneous items.....	8,960.00	8,040.24	
Total.....	75,000.00	62,000.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, States Relations Service—Continued.**Agricultural experiment station, Hawaii.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Agronomist in charge.....per annum..	\$3,500.00	1	1
Assistant agronomist.....do.....	1,400.00	1	..
Assistant agronomist.....do.....	1,320.00	..	1
Horticulturist.....do.....	2,520.00	1	..
Horticulturist.....do.....	2,400.00	..	1
Assistant horticulturist.....do.....	1,500.00	1	..
Assistant horticulturist.....do.....	1,200.00	1	1 (temp.)
Chemist.....do.....	2,400.00	1	..
Chemist.....do.....	2,100.00	..	1
Assistant chemist.....do.....	1,440.00	1	..
Assistant chemist.....do.....	1,200.00	..	1 (temp.)
Plant pathologist.....do.....	2,220.00	1	..
Plant pathologist.....do.....	2,000.00	..	1
Superintendent of extension.....do.....	2,400.00	1	..
Superintendent of extension.....do.....	2,220.00	..	1
Assistant in extension.....do.....	2,000.00	1 (new)	..
Executive clerk.....do.....	1,500.00	1	1
Clerks, messengers, and col- laborators, \$1,000 to \$1.....do.....	.....	8	9
Wages:			
Temporary labor, \$75 to \$25..per month.....	.....	23	25
		42	43
Salaries.....		\$25,520.00	\$19,347.84
Wages.....		12,985.00	13,124.24
Other objects of expenditure:			
Traveling expenses.....		2,800.00	1,461.03
Equipment and material.....		4,838.00	2,096.58
Miscellaneous items.....		3,857.00	3,970.31
Total.....		50,000.00	40,000.00

*Agricultural experiment station, Porto Rico.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Agronomist in charge.....per annum..	\$3,500.00	1	1
Chemist.....do.....	2,700.00	1	1 (temp.)
Assistant chemist.....do.....	1,620.00	1	1
Horticulturist.....do.....	2,400.00	..	1 (temp.)
Horticulturist.....do.....	2,100.00	1	1
Assistant horticulturist.....do.....	1,980.00	..	1 (temp.)
Assistant horticulturist.....do.....	1,500.00	1	..
Entomologist.....do.....	2,400.00	1	1
Entomologist.....do.....	1,620.00	..	1 (temp.)
Plant pathologist.....do.....	1,800.00	1	1
Assistant plant pathologist.....do.....	1,500.00	1	1 (temp.)
Plant breeder.....do.....	1,440.00	..	1 (temp.)
Agricultural technologist.....do.....	2,160.00	1	..
Agricultural technologist.....do.....	2,000.00	..	1
Specialist in farm management.....do.....	2,500.00	1	1
Assistant in extension.....do.....	2,000.00	1 (new)	..
Clerk.....do.....	1,440.00	1	1
Clerk or messenger.....do.....	400.00	1 (new)	..
Wages:			
Temporary laborers.....per diem.	\$3 to .25	38	35
		51	49
Salaries.....		\$25,620.00	\$20,542.67
Wages.....		10,000.00	11,115.32
Other objects of expenditure:			
Traveling expenses.....		3,600.00	2,136.40
Equipment and material.....		6,570.00	3,436.14
Miscellaneous items.....		4,810.00	2,769.47
Total.....		50,000.00	40,000.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, States Relations Service—Continued.**Agricultural experiment station, Guam.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<b>Salaries:</b>			
Animal husbandmen in charge, per annum..	\$2,700.00	Number. 1	Number. 1
Agent.....do.....	1,980.00	1	1
Agent.....do.....	1,740.00	1	1
Agent.....do.....	1,620.00	1	1
Entomologist and pathologist.....do.....	1,920.00	1	..
Assistant in extension.....do.....	1,920.00	1	..
Assistant horticulturist.....do.....	900.00	1	..
<b>Wages:</b>			
Temporary labor, \$2.50 to \$0.50.. per diem..	.....	18	15
		24	18
Salaries.....		\$11,160.00	\$6,300.00
Wages.....		6,500.00	4,100.40
<b>Other objects of expenditure:</b>			
Traveling expenses.....		1,000.00	250.00
Equipment and material.....		4,000.00	1,088.41
Miscellaneous items.....		2,340.00	3,261.19
Total.....		25,000.00	15,000.00

*Agricultural experiment station, Virgin Islands.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
<b>Salaries:</b>			
Agronomist in charge.....per annum..	\$3,000.00	Number. 1	Number. ..
Chemist.....do.....	1,800.00	1	..
Assistant agronomist.....do.....	1,500.00	1	..
Plant pathologist.....do.....	1,500.00	1	..
Entomologist.....do.....	1,500.00	1	..
<b>Wages:</b>			
Temporary labor, \$2.50 to \$0.50.. per diem..	.....	10	..
		15	..
Salaries.....		\$9,300.00	.....
Wages.....		2,500.00	.....
<b>Other objects of expenditure:</b>			
Traveling expenses.....		500.00	.....
Equipment and material.....		1,300.00	.....
Miscellaneous items.....		1,400.00	.....
Total.....		15,000.00	.....

\* No appropriation for fiscal year 1918.

- (57) To enable the Secretary of Agriculture to investigate the relative utility and economy of agricultural products for food, clothing, and other uses in the home, with special suggestions of plans and methods for the more effective utilization of such products for these purposes, with the cooperation of other bureaus of the department, and to disseminate useful information on this subject, including the employment of labor in the city of Washington and elsewhere, supplies, and all other necessary expenses [ \$30,120 ] (*acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; Oct. 1, 1918, vol. 40, p. 999, sec. 1*) ----- \$76,280.00

NOTE.—There is an apparent increase in this item of \$46,160, but taking into consideration the transfers to the statutory roll of 2 clerks at \$1,320 each and 1 clerk of class 1, aggregating \$3,840, the actual increase is \$50,000.

During the past few years the public demand for reliable information on the scientific and economic aspects of home problems has increased greatly. This has been due (a) to the increased cost of living and the shortage of many materials consumed in the home and the consequent need for more careful choice and utilization; (b) to the increased instruction given in schools and colleges, due in part to the vocational education act and in part to the general interest in more practical education



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																																								
<i>General Expenses, States Relations Service—Continued.</i>																																																																																																																																																										
in our school system and the consequent need on the part of teachers and students for more information than is available in standard reference books; and (c) to the rapid extension of the work of the home-demonstration agents now employed in all the States, 2,000 women being engaged in this work.																																																																																																																																																										
The only organization specifically authorized to conduct investigations covering the field of home economics is the Office of Home Economics of this department. At present this office is greatly handicapped because its means are so small that its investigations necessarily are very limited in scope and can not be conducted on a sufficiently large scale to produce satisfactory results unless spread over a long period of time. The broad and urgent demand for information along home-economics lines has compelled this office to use the services of its small staff very largely in collating and writing up material gathered from various sources. If the department is to maintain leadership as a research agency in the field it must be in a position to conduct original studies under such conditions as will enable it to make frequent contributions to knowledge.																																																																																																																																																										
Teachers, writers, extension workers, housekeepers, industrial firms, and private and State institutions concerned with the living conditions of their employees or dependents all apply to this office for definite information regarding the less-understood questions of food, clothing, household equipment, and household management or for help in the solution of their individual problems. Other branches of the Government (e. g., the War Department, especially in its Division of Food and Nutrition, the Department of Labor, the U. S. Shipping Board, the Bureau of Fisheries, and the Food Administration) and other bureaus of the department also apply to it for assistance with increasing frequency. The States Relations Service is under special obligation to provide the cooperative extension forces with reliable information on home-economics subjects, but under present conditions the Office of Home Economics is not meeting their expectations as a broad source of authoritative information and can not become so with its limited means. For this reason the home-demonstration work rests on a relatively weak scientific basis.																																																																																																																																																										
<table border="1"> <thead> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1920.</th><th>Expended, 1918.</th></tr> </thead> <tbody> <tr> <td>Salaries:</td><td></td><td></td><td></td></tr> <tr> <td>Chief home economics expert per annum..</td><td>\$3,300.00</td><td>1</td><td>1</td></tr> <tr> <td>Assistant chief.....do.....</td><td>2,700.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Specialist.....do.....</td><td>2,700.00</td><td>1</td><td>1 (temp.)</td></tr> <tr> <td>Specialist.....do.....</td><td>2,520.00</td><td>1</td><td>1</td></tr> <tr> <td>Specialists.....do.....</td><td>2,400.00</td><td>4 (1 new)</td><td>..</td></tr> <tr> <td>Specialist.....do.....</td><td>2,220.00</td><td>1 (new)</td><td>..</td></tr> <tr> <td>Specialists.....do.....</td><td>2,040.00</td><td>..</td><td>2 (part time)</td></tr> <tr> <td>Specialists.....do.....</td><td>1,800.00</td><td>1</td><td>2 (1 temp.)</td></tr> <tr> <td>Specialist.....do.....</td><td>1,500.00</td><td>1</td><td>1 (temp.)</td></tr> <tr> <td>Specialist.....per diem.....</td><td>6.00</td><td>..</td><td>1</td></tr> <tr> <td>Specialists.....do.....</td><td>5.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Scientific assistants.....per annum..</td><td>1,800.00</td><td>4 (new)</td><td>1 (temp.)</td></tr> <tr> <td>Scientific assistants.....do.....</td><td>1,620.00</td><td>4 (1 new)</td><td>2 (1 temp., 1 part time)</td></tr> <tr> <td>Scientific assistant.....do.....</td><td>1,500.00</td><td>1</td><td>1</td></tr> <tr> <td>Scientific assistant.....do.....</td><td>1,440.00</td><td>1</td><td>1 (temp.)</td></tr> <tr> <td>Scientific assistant.....do.....</td><td>1,320.00</td><td>..</td><td>1</td></tr> <tr> <td>Scientific assistants.....do.....</td><td>1,200.00</td><td>2 (1 new)</td><td>1</td></tr> <tr> <td>Scientific assistant.....do.....</td><td>1,020.00</td><td>1</td><td>1</td></tr> <tr> <td>Clerk.....do.....</td><td>1,620.00</td><td>1</td><td>..</td></tr> <tr> <td>Clerk.....do.....</td><td>1,500.00</td><td>..</td><td>1</td></tr> <tr> <td>Clerk †.....do.....</td><td>1,320.00</td><td>..</td><td>1</td></tr> <tr> <td>Clerk.....do.....</td><td>1,260.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Clerks *.....do.....</td><td>1,200.00</td><td>..</td><td>2</td></tr> <tr> <td>Clerks.....do.....</td><td>1,200.00</td><td>4 (new)</td><td>..</td></tr> <tr> <td>Clerks *.....do.....</td><td>1,000.00</td><td>..</td><td>2 (1 part time)</td></tr> <tr> <td>Messenger boy *.....do.....</td><td>480.00</td><td>..</td><td>1</td></tr> <tr> <td>Charwoman *.....do.....</td><td>240.00</td><td>..</td><td>1</td></tr> <tr> <td>Aids, messenger boys, student assistants, collaborators, and charwomen, \$900 to \$240.....do.....</td><td>.....</td><td>20 (5 temp.)</td><td>15 (3 temp.)</td></tr> <tr> <td></td><td>.....</td><td>48</td><td>43</td></tr> <tr> <td>Salaries.....</td><td>.....</td><td>\$56,390.00</td><td>\$23,902.32</td></tr> <tr> <td>Other subjects of expenditure:</td><td></td><td></td><td></td></tr> <tr> <td>Stationery.....</td><td>.....</td><td>800.00</td><td>477.26</td></tr> <tr> <td>Traveling expenses.....</td><td>.....</td><td>3,600.00</td><td>719.65</td></tr> <tr> <td>Equipment and material.....</td><td>.....</td><td>10,150.00</td><td>6,348.50</td></tr> <tr> <td>Miscellaneous items.....</td><td>.....</td><td>5,340.00</td><td>3,372.77</td></tr> <tr> <td>Total.....</td><td>.....</td><td>76,280.00</td><td>34,820.50</td></tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:				Chief home economics expert per annum..	\$3,300.00	1	1	Assistant chief.....do.....	2,700.00	..	1 (temp.)	Specialist.....do.....	2,700.00	1	1 (temp.)	Specialist.....do.....	2,520.00	1	1	Specialists.....do.....	2,400.00	4 (1 new)	..	Specialist.....do.....	2,220.00	1 (new)	..	Specialists.....do.....	2,040.00	..	2 (part time)	Specialists.....do.....	1,800.00	1	2 (1 temp.)	Specialist.....do.....	1,500.00	1	1 (temp.)	Specialist.....per diem.....	6.00	..	1	Specialists.....do.....	5.00	..	1 (temp.)	Scientific assistants.....per annum..	1,800.00	4 (new)	1 (temp.)	Scientific assistants.....do.....	1,620.00	4 (1 new)	2 (1 temp., 1 part time)	Scientific assistant.....do.....	1,500.00	1	1	Scientific assistant.....do.....	1,440.00	1	1 (temp.)	Scientific assistant.....do.....	1,320.00	..	1	Scientific assistants.....do.....	1,200.00	2 (1 new)	1	Scientific assistant.....do.....	1,020.00	1	1	Clerk.....do.....	1,620.00	1	..	Clerk.....do.....	1,500.00	..	1	Clerk †.....do.....	1,320.00	..	1	Clerk.....do.....	1,260.00	..	1 (temp.)	Clerks *.....do.....	1,200.00	..	2	Clerks.....do.....	1,200.00	4 (new)	..	Clerks *.....do.....	1,000.00	..	2 (1 part time)	Messenger boy *.....do.....	480.00	..	1	Charwoman *.....do.....	240.00	..	1	Aids, messenger boys, student assistants, collaborators, and charwomen, \$900 to \$240.....do.....	.....	20 (5 temp.)	15 (3 temp.)		.....	48	43	Salaries.....	.....	\$56,390.00	\$23,902.32	Other subjects of expenditure:				Stationery.....	.....	800.00	477.26	Traveling expenses.....	.....	3,600.00	719.65	Equipment and material.....	.....	10,150.00	6,348.50	Miscellaneous items.....	.....	5,340.00	3,372.77	Total.....	.....	76,280.00	34,820.50		
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\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, States Relations Service—Continued.</i>		
(58) For general administrative expenses connected with the lines of work of the States Relations Service, including the offices of the director, the chief clerk, the officers in charge of publications, library, accounts, records, supplies, and property, and for miscellaneous expenses incident thereto [§15,680] (acts July 2, 1862, vol. 12, p. 503, sec. 1; Mar. 2, 1887, vol. 24, p. 440, secs. 1-10; Mar. 16, 1906, vol. 34, p. 63, secs. 2, 3; May 8, 1914, vol. 38, pp. 372-374, sec. 1; Oct. 1, 1918, vol. 40, p. 999, sec. 1) -----	\$19,180.00	

NOTE.—There is an apparent increase in this item of \$3,500, but taking into consideration transfers to the statutory roll of 1 clerk and chief accountant at \$2,400, 1 clerk of class 3, 1 clerk of class 2, and 1 clerk at \$1,100, aggregating \$6,500, the actual increase is \$10,000.

Since the amount for general administrative expenses was fixed at the present figure the force on the rolls of the bureau has increased from 1,965 to nearly 7,000. The correspondence and other business with the Secretary's office and the bureaus of the department have greatly increased. The additional amount recommended is to meet this need and to provide for the growth of the business connected with the personnel records, the more satisfactory handling of supplies, the employment of temporary help, etc., and for other unforeseen expenses which must be defrayed from this appropriation. With the great advance in the cost of supplies and traveling expenses, the small increase will be urgently needed.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Agricultural physicist.....per annum.....	\$3,240.00	1 (pt. time)	1 (part time)
Scientific assistant.....do.....	1,920.00	1 (pt. time)	1 (part time)
Scientific assistant.....do.....	1,800.00	..	1 (part time)
Scientific assistant.....do.....	1,200.00	1 (pt. time)	1 (part time)
Clerk†.....do.....	1,400.00	..	1
Clerks*.....do.....	1,200.00	..	3
Clerk.....do.....	1,200.00	..	4 (2 temp.; 2 part time)
Clerks.....do.....	1,100.00	3 (2 temp.)	1 part time)
Clerk*.....do.....	1,000.00	..	1
Clerks.....do.....	1,000.00	..	3 (2 temp.; 1 part time)
Scientific assistants, clerks, lantern-slide colorist, watchmen, and messenger boys, \$900 to \$264.....do.....		10 (temp.)	10 (temp.)
Wages:			
Laborers, \$792 to \$300.....do.....		9 (temp.)	9 (temp.)
Tinsmith.....per diem.....	3.12	..	1 (temp.)
		25	37
Salaries.....		\$12,130.00	\$9,505.50
Wages.....		1,500.00	1,380.50
Other objects of expenditure:			
Stationery.....		1,100.00	871.46
Traveling expenses.....		350.00	269.69
Equipment and material.....		2,000.00	1,660.30
Telephone and telegraph service.....		500.00	410.43
Miscellaneous items.....		1,600.00	1,549.04
Total.....		19,180.00	15,646.92

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.

In all, for general expenses ----- \$3,041,980.00 \$2,969,840.00

Appropriations for 1910.....	\$863,800	Estimates for 1911.....	\$862,400
Appropriations for 1911.....	862,400	Estimates for 1912.....	<sup>1</sup> 1,622,500
Appropriations for 1912.....	<sup>1</sup> 1,592,500	Estimates for 1913.....	1,604,160
Appropriations for 1913.....	1,599,160	Estimates for 1914.....	1,615,500
Appropriations for 1914.....	1,613,500	Estimates for 1915.....	1,615,255
Appropriations for 1915.....	1,633,500	Estimates for 1916.....	<sup>2</sup> 2,718,700
Appropriations for 1916.....	<sup>2</sup> 2,718,700	Estimates for 1917.....	2,754,140
Appropriations for 1917.....	2,812,140	Estimates for 1918.....	3,017,900
Appropriations for 1918.....	2,972,580	Estimates for 1919.....	2,969,840
Appropriations for 1919.....	2,969,840	Estimates for 1920.....	3,041,980

<sup>1</sup> Includes \$720,000 previously carried in the Adams Act for additional aid to State experiment stations.

<sup>2</sup> Includes \$1,073,240 for farmers' cooperative demonstrations previously carried in Plant Bureau.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, States Relations Service—Continued.</i>		
<i>Statement of clerks employed in District of Columbia under lump-sum appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).</i>		
GENERAL EXPENSES—STATES RELATIONS SERVICE.		
2 clerks, at \$1,980 each per annum.		
1 clerk, \$1,800 per annum.		
1 clerk, \$1,680 per annum.		
4 clerks, at \$1,600 each per annum.		
1 clerk, \$1,500 per annum.		
3 clerks, at \$1,400 each per annum.		
1 clerk, \$1,320 per annum.		
2 clerks, at \$1,260 each per annum.		
19 clerks, at \$1,200 each per annum.		
3 clerks, at \$1,100 each per annum.		
1 clerk, \$1,080 per annum.		
31 clerks, at \$1,000 each per annum.		
10 clerks, at \$900 each per annum.		
Total for States Relations Service . . . . .	\$3, 245, 820.00	\$3, 150, 820.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
BUREAU OF PUBLIC ROADS.		
<i>Salaries, Bureau of Public Roads—</i>		
(1) One director who shall be a scientist and have charge of all scientific and technical work ( <i>R. S.</i> , p. 87, secs. 520-523; <i>acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; Oct. 1, 1918, vol. 40, p. 1000, sec. 1</i> )-----	\$4, 500.00	
(2) One editor ( <i>same acts</i> )-----	2, 500.00	
(3) One draftsman or clerk ( <i>same acts</i> )-----	1, 920.00	
(4) One clerk ( <i>same acts</i> )-----	1, 900.00	
(5) One instrument maker (by transfer from lump fund for road material) ( <i>same acts</i> )-----	1, 800.00	
(6) One model maker ( <i>same acts</i> )-----	1, 800.00	
(7) Four clerks, class 4 (increase of 1 by transfer from lump fund for road management) ( <i>same acts</i> )-----	7, 200.00	
(8) Six clerks, class 3 ( <i>same acts</i> )-----	9, 600.00	
(9) One clerk or editorial clerk ( <i>same acts</i> )-----	1, 600.00	
(10) Two clerks, at \$1,500 each ( <i>same acts</i> )-----	3, 000.00	
(11) One clerk or photographer ( <i>same acts</i> )-----	1, 440.00	
(12) One clerk or instrument maker ( <i>same acts</i> )-----	1, 440.00	
(13) One clerk or tabulator ( <i>same acts</i> )-----	1, 440.00	
(14) One clerk, class 2 ( <i>same acts</i> )-----	1, 400.00	
(15) Two clerks, at \$1,380 each ( <i>same acts</i> )-----	2, 760.00	
(16) Two clerks, at \$1,320 each ( <i>same acts</i> )-----	2, 640.00	
(17) Four clerks, at \$1,260 each ( <i>same acts</i> )-----	5, 040.00	
(18) Six clerks, class 1 ( <i>same acts</i> )-----	7, 200.00	
(19) One clerk or editorial clerk ( <i>same acts</i> )-----	1, 200.00	
(20) One draftsman ( <i>same acts</i> )-----	1, 320.00	
(21) One clerk or draftsman ( <i>same acts</i> )-----	1, 200.00	
(22) One clerk or draftsman ( <i>same acts</i> )-----	900.00	
(23) One clerk or photographer ( <i>same acts</i> )-----	1, 200.00	
(24) One clerk or photographer ( <i>same acts</i> )-----	1, 000.00	
(25) Two clerks, at \$1,140 each ( <i>same acts</i> )-----	2, 280.00	
(26) One clerk (by transfer from lump fund for road building and maintenance) ( <i>same acts</i> )-----	1, 100.00	



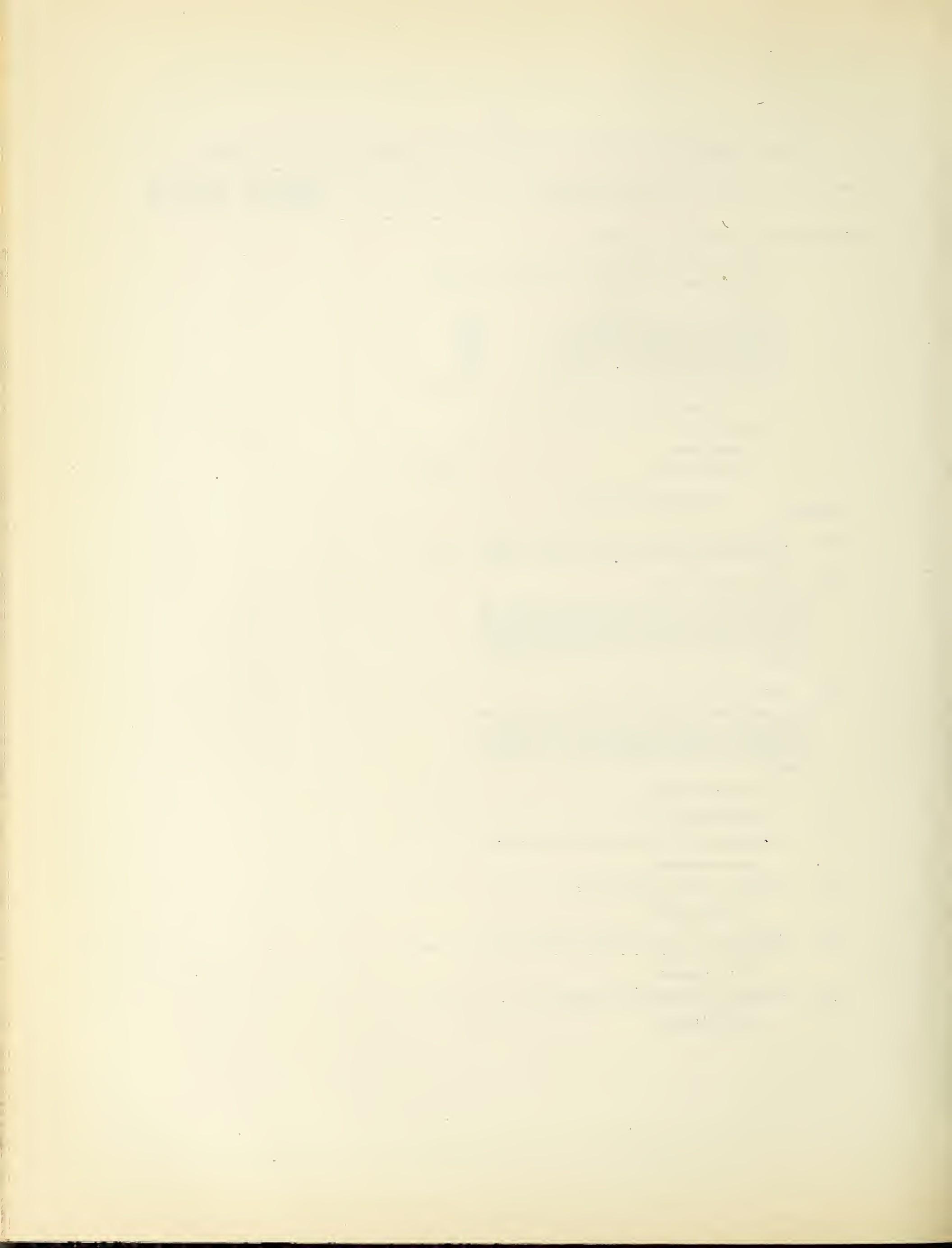
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Public Roads—Continued.</i>		
(27) Two clerks, at \$1,080 each ( <i>R. S., p. 87, secs. 520-523; acts Mar. 3, 1905, vol. 33, p. 882, sec. 1; Oct. 1, 1918, vol. 40, p. 1000, sec. 1</i> )-----	\$2,160.00	
(28) One clerk ( <i>same acts</i> )-----	1,020.00	
(29) Nine clerks, at \$1,000 each ( <i>same acts</i> )-----	9,000.00	
(30) One clerk or skilled laborer ( <i>same acts</i> )-----	1,000.00	
(31) Four clerks, at \$900 each ( <i>same acts</i> )-----	3,600.00	
(32) One mechanician ( <i>same acts</i> )-----	1,680.00	
(33) One clerk or instrument maker ( <i>same acts</i> )-----	1,200.00	
(34) One lantern-slide colorist ( <i>same acts</i> )-----	1,320.00	
(35) One mechanic (by transfer from lump fund for road building and maintenance) ( <i>same acts</i> )-----	1,500.00	
(36) One mechanic ( <i>same acts</i> )-----	1,200.00	
(37) One skilled laborer ( <i>same acts</i> )-----	1,200.00	
(38) One laboratory aid ( <i>same acts</i> )-----	960.00	
(39) Two laborers, at \$900 each (by transfer from lump fund for road material) ( <i>same acts</i> )-----	1,800.00	
(40) One messenger, laborer, or laboratory helper ( <i>same acts</i> )-----	840.00	
(41) One messenger or laborer ( <i>same acts</i> )-----	840.00	
(42) Two messengers, laborers, or laboratory helpers, at \$720 each ( <i>same acts</i> )-----	1,440.00	
(43) Two messengers or laborers, at \$660 each ( <i>same acts</i> )-----	1,320.00	
(44) Seven messengers, laborers, or messenger boys, at \$600 each (increase of 1 by transfer of 1 laborer from lump fund for road material) ( <i>same acts</i> )-----	4,200.00	
(45) <b>One skilled laborer, \$720, transferred to statutory roll, Secretary's office.]</b>		
(46) One fireman ( <i>same acts</i> )-----	720.00	
(47) Eight laborers, messenger boys, or charwomen, at \$480 each ( <i>same acts</i> )-----	3,840.00	
(48) Eight charwomen, at \$240 each (increase of 1 by transfer from lump fund for road building and maintenance) ( <i>same acts</i> )-----	1,920.00	
Appropriations for 1910..... \$16,460	Estimates for 1911..... \$21,260	
Appropriations for 1911..... 21,260	Estimates for 1912..... 34,060	
Appropriations for 1912..... 34,020	Estimates for 1913..... 37,940	
Appropriations for 1913..... 37,020	Estimates for 1914..... 54,400	
Appropriations for 1914..... 47,400	Estimates for 1915..... 53,000	
Appropriations for 1915..... 52,500	Estimates for 1916..... 75,960	
Appropriations for 1916..... 75,960	Estimates for 1917..... 88,880	
Appropriations for 1917..... 88,380	Estimates for 1918..... 98,720	
Appropriations for 1918..... 95,360	Estimates for 1919..... 104,020	
Appropriations for 1919..... 104,020	Estimates for 1920..... 112,140	
		\$112,140.00
		\$104,020.00



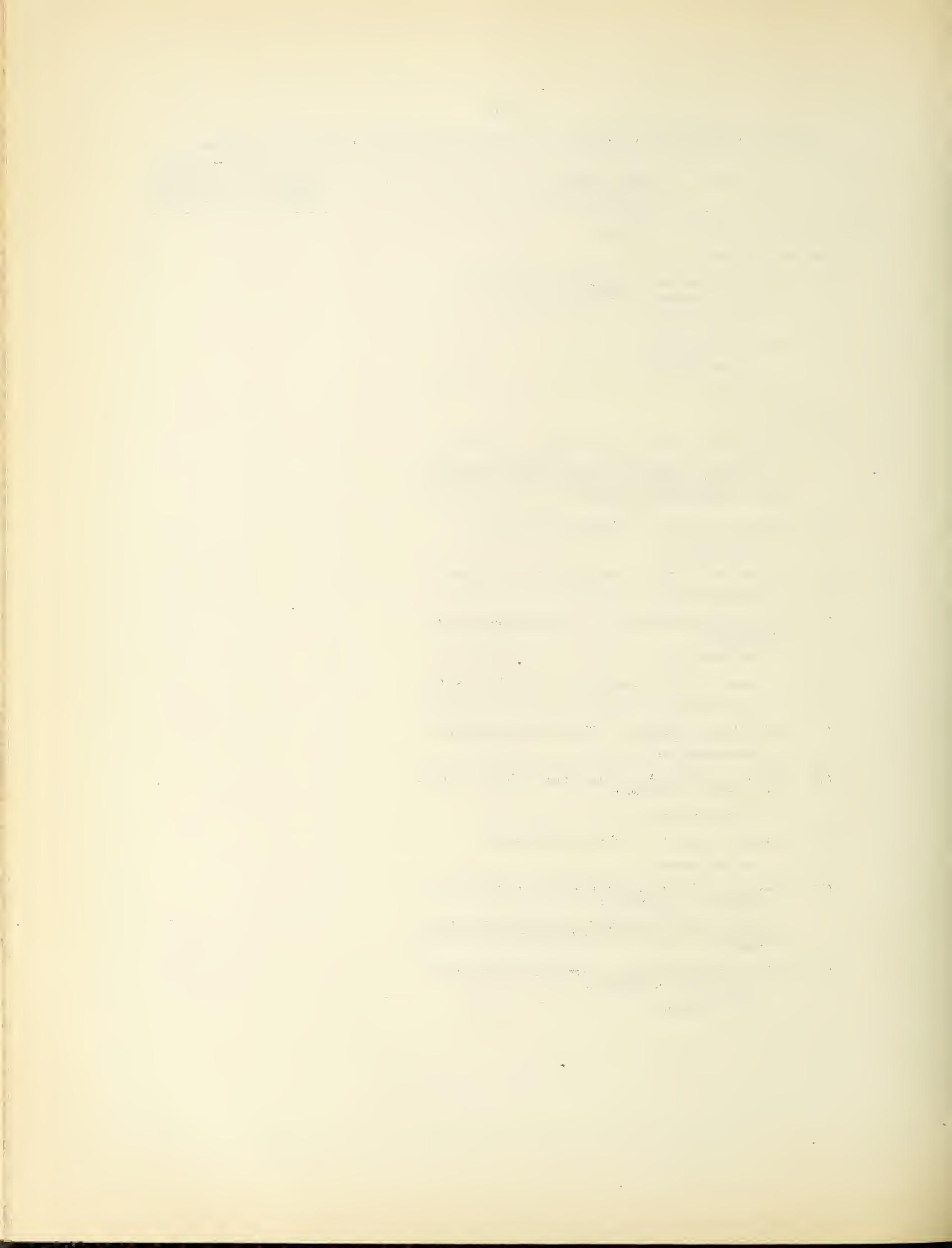
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Public Roads—Continued.</i>		
NOTE.—Apparent increase, \$8,120; actual decrease, \$720, as follows:		
<i>Transfers from lump funds of this bureau, which funds have been correspondingly reduced.</i>		
1 instrument maker, from road material..... \$1,800 1 clerk, class 4, from road management..... 1,800 1 clerk, from road building and maintenance..... 1,100 1 mechanic, from road building and maintenance..... 1,500 2 laborers, at \$900 each, from road material..... 1,800 1 laborer, from road material..... 600 1 charwoman, from road building and maintenance..... 240 ..... \$8,840		
<i>Transfer to statutory roll, Office of the Secretary.</i>		
1 skilled laborer..... 720 Actual decrease..... 720 Apparent increase..... 8,120		
SUPPLEMENTAL ESTIMATE.		
<i>Promotions:</i>		
(49) 1 director, who shall be a scientist and have charge of all scientific and technical work, \$4,500 to \$5,000..... \$500		
(50) 1 clerk, \$1,100 to \$1,140..... 40		
(This small increase is recommended in order that the salary of this employee may conform to the established grades for clerks on the statutory roll of this bureau and avoid establishing a new grade between \$1,000 and \$1,200. This employee was originally appointed on a lump fund roll at \$1,100 per annum and is recommended for transfer to the statutory roll in the regular estimates of appropriations.)		
(51) 1 clerk or draftsman, \$900 to \$1,000..... 100		
(This promotion and those which follow are recommended in order that the salaries of the respective positions may conform to the minimum salary recommended for such positions, as set forth in the general note regarding minimum salaries. To accomplish this result a number of changes in title will be necessary and are indicated.)		
(52) 4 clerks, \$900 to \$1,000 each..... 400 (See preceding note.)		
(53) 1 messenger, laborer, or laboratory helper, \$840 to \$900..... 60 (See preceding note.)		
(54) 1 messenger or laborer, \$840 to \$900..... 60 (See preceding note.)		
(55) 2 messengers, laborers, or laboratory helpers, \$720 to \$900 each..... 360 (See preceding note.)		
(56) 2 messengers or laborers, \$660 to \$900 each..... 480 (See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Public Roads—Continued.</i>		
<i>Promotions—Continued.</i>		
(57) 4 messengers, laborers, or messenger boys, at \$600 each, to 4 messengers or laborers, at \$900 each . . . \$1,200 (See preceding note.)		
(58) 1 fireman, \$720 to \$1,000 . . . . . 280 (See preceding note.)		
Net increase . . . . . 3,480		
<i>Changes in title:</i>		
(59) 1 model maker, \$1,800, to 1 model maker or clerk, \$1,800. (This change in designation and those which follow are proposed in order to permit greater latitude in filling the positions should vacancies occur. None of the places are vacant at the present time and no promotions are contemplated by the changes.)		
(60) 1 draftsman, \$1,320, to 1 draftsman or clerk, \$1,320. (See preceding note.)		
(61) 1 mechanician, \$1,680, to 1 mechanician or clerk, \$1,680. (See preceding note.)		
(62) 1 lantern-slide colorist, \$1,320, to 1 lantern-slide colorist or clerk, \$1,320. (See preceding note.)		
(63) 1 mechanic, \$1,200, to 1 mechanic or skilled laborer, \$1,200. (See preceding note.)		
(64) 1 skilled laborer, \$1,200, to 1 skilled laborer or clerk, \$1,200. (See preceding note.)		
(65) 2 laborers, at \$900 each, to 2 messengers, laborers, or laboratory helpers, at \$900 each. (See preceding note.)		
(66) 1 mechanic, \$1,500, to 1 mechanic or clerk, \$1,500. (See preceding note.)		
(67) 3 messengers, laborers, or messenger boys, at \$600 each, to 3 messenger boys, at \$600 each. (These changes and those which follow are recommended in order that the titles of the positions may clearly indicate the character of work performed.)		
(68) 8 laborers, messenger boys, or charwomen, at \$480 each, to 8 messenger boys, at \$480 each. (See preceding note.)		

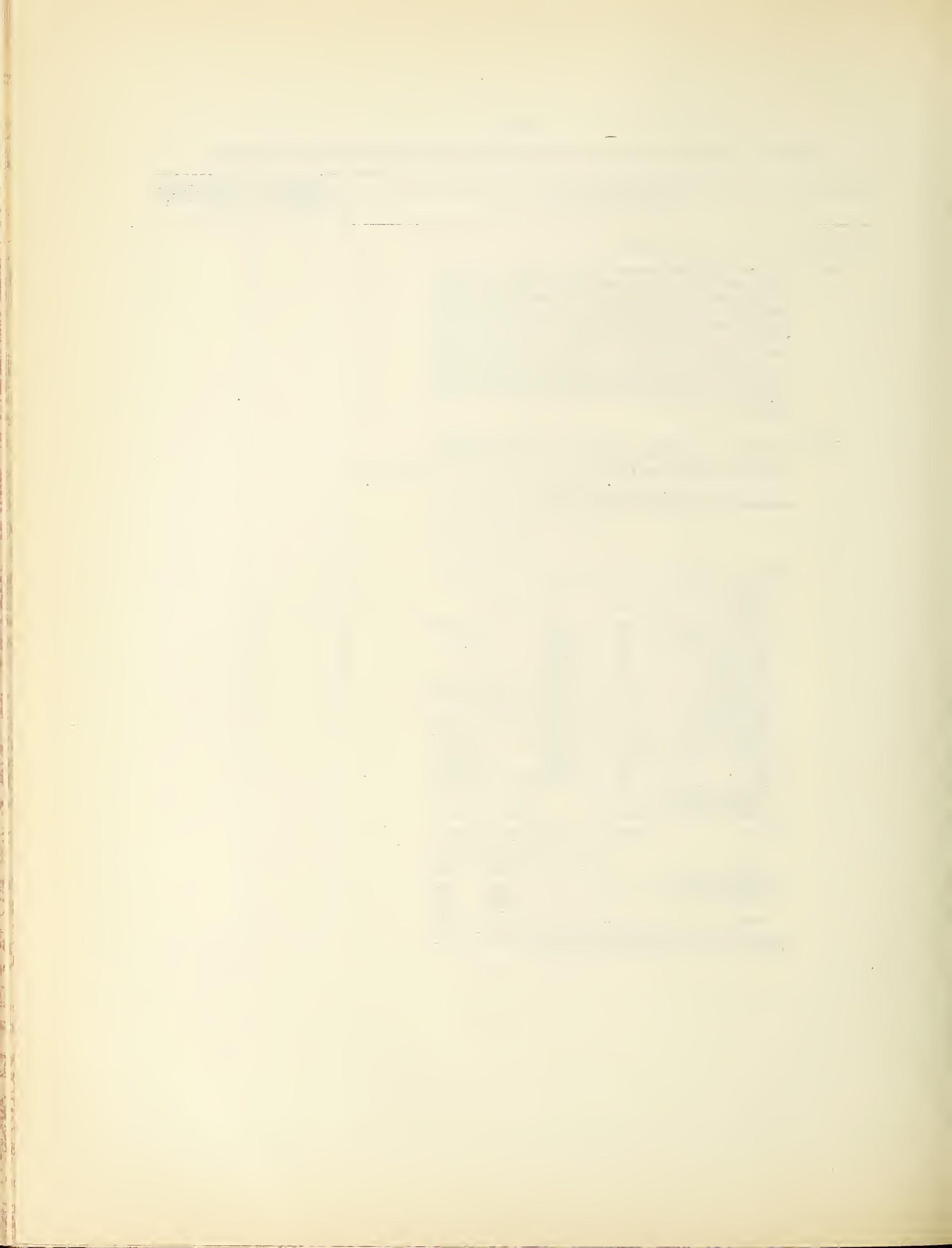


*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																																								
<i>General Expenses, Bureau of Public Roads—</i>																																																																																																																																																										
(69) For salaries and the employment of labor in the city of Washington and elsewhere, supplies, office fixtures, apparatus, traveling and all other necessary expenses, for conducting investigations and experiments, and for collating, reporting, and illustrating the results of same, and for preparing, publishing, and distributing bulletins and reports, as follows: <i>Provided</i> , That no part of these appropriations shall be expended for the rent or purchase of road-making machinery, except such as may be necessary for field experimental work as hereinafter provided for ( <i>acts Mar. 3, 1905, vol. 33, pp. 882, 883, sec. 1; Oct. 1, 1918, vol. 40, pp. 1000, 1001, sec. 1</i> ):																																																																																																																																																										
(70) For inquiries in regard to systems of road management throughout the United States and for giving expert advice on this subject [§\$40,040] (same acts) - - - - -	\$38,240.00																																																																																																																																																									
NOTE.—There is an apparent decrease in this item of \$1,800, due to the transfer of 1 clerk of class 4 to the statutory roll.																																																																																																																																																										
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Rate.	Estimated, 1920.	Expended, 1918.	Salaries:				Chief of management, in charge.....per annum..	\$3,720.00	1	1	Assistant in road economics.....do.....	2,500.00	1	1	Consulting engineer in cost accounting.....per diem..	9.00	1 (temp.)	..	Assistant in road management.....per annum..	2,280.00	..	1(part time)	Assistant in road management.....do.....	1,920.00	..	1 (temp.)	Senior highway engineer.....do.....	2,500.00	1	1	Senior highway engineer.....do.....	2,340.00	1	..	Senior highway engineer.....do.....	2,220.00	..	1	Highway engineer.....do.....	2,000.00	1	1	Highway engineer.....do.....	1,860.00	1	..	Highway engineer.....do.....	1,800.00	1(part time)	1(part time)	Highway engineer.....do.....	1,740.00	..	1	Junior highway engineer.....do.....	1,380.00	1(part time)	1(part time)	Engineer economist.....do.....	2,400.00	1	1	Engineer economist.....do.....	2,040.00	1	..	Engineer economists.....do.....	1,800.00	3(part time)	4(3 pt. time)	Topographic draftsman.....do.....	1,440.00	1	..	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\*Transferred to statutory roll in Agricultural act for 1919, from administrative expenses.

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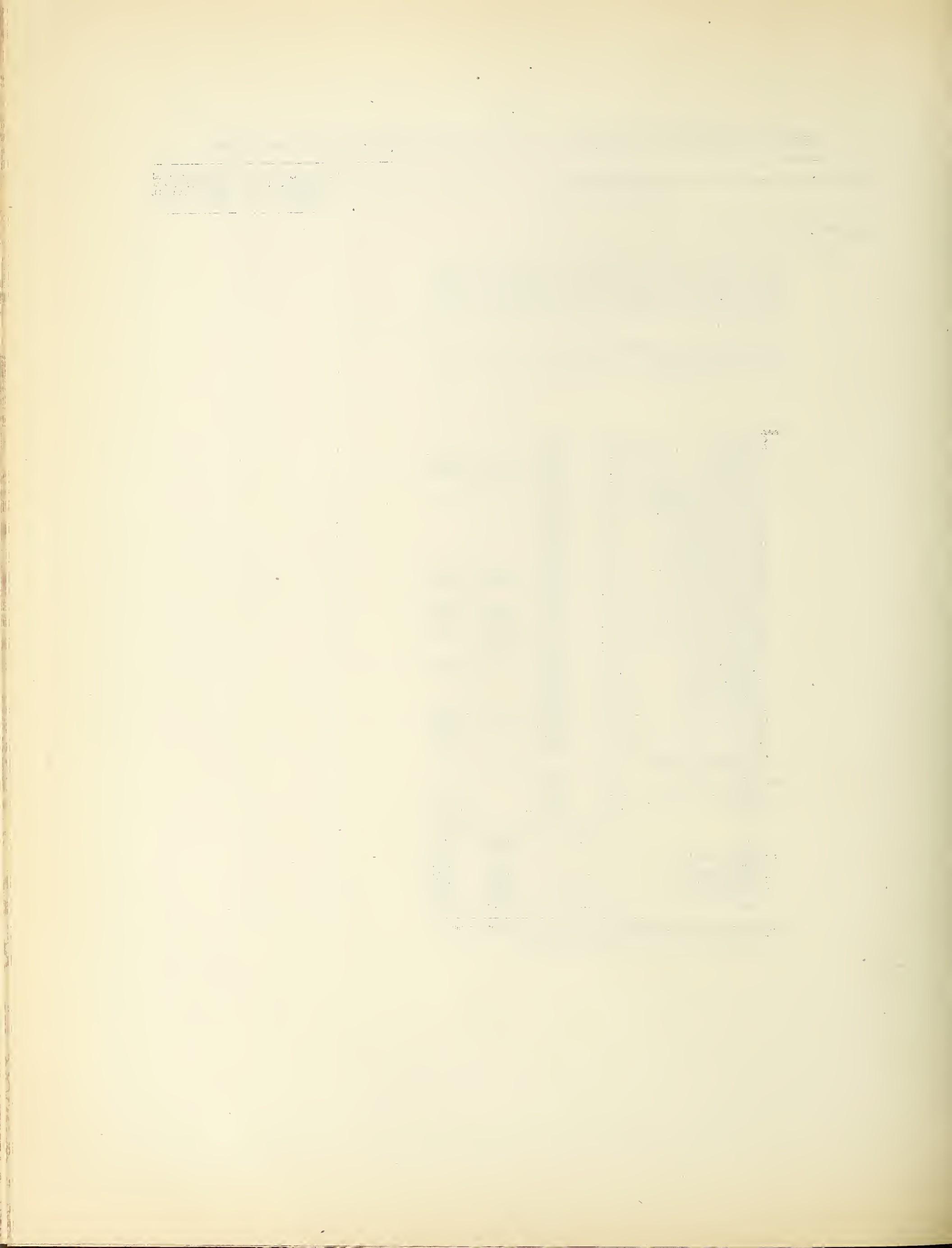


*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>General Expenses, Bureau of Public Roads—Continued.</i>		
(71) For investigations of the best methods of road making, especially ordinary sand-clay and dirt roads, and the best kinds of road-making materials, and for furnishing expert advice on road building and maintenance [§141,060] (acts Mar. 3, 1905, vol. 33, pp. 882, 883, sec. 1; Oct. 1, 1918, vol. 40, pp. 1000, 1001, sec. 1) . . . . .	\$138,220.00	
NOTE.—There is an apparent decrease in this item of \$2,840, due to the transfer to the statutory roll of 1 clerk at \$1,100, 1 mechanic at \$1,500, and 1 charwoman at \$240.		
<i>Employees.</i>	<i>Rate.</i>	<i>Estimated, 1920.</i>
<i>Salaries:</i>		<i>Number.</i>
Chief engineer.....per annum..	\$4,000.00	1
General inspectors.....do.....	3,500.00	2
District engineer.....do.....	4,000.00	1(part time)
District engineers.....do.....	3,500.00	2(part time)
District engineer.....do.....	3,000.00	1(part time)
Assistant engineer.....do.....	3,500.00	1
Senior highway bridge engineers.....do.....	3,300.00	2
Senior highway bridge engineer.....do.....	3,000.00	1(part time)
Senior highway bridge engineer.....do.....	2,600.00	1
Senior highway bridge engineer.....do.....	2,220.00	1
Highway bridge engineer.....do.....	2,100.00	1(part time)
Highway bridge engineer.....do.....	1,980.00	1
Highway bridge engineer.....do.....	1,920.00	1
Highway bridge engineer.....do.....	1,860.00	1
Highway bridge engineers.....do.....	1,800.00	2
Senior highway engineers.....do.....	2,700.00	2
Senior highway engineers.....do.....	2,500.00	6(part time)
Senior highway engineers.....do.....	2,400.00	4(part time)
Senior highway engineers.....do.....	2,220.00	3(part time)
Highway engineer.....do.....	2,000.00	1
Highway engineer.....do.....	1,800.00	1
Junior highway engineer.....do.....	1,500.00	1(part time)
Junior highway engineers.....do.....	1,440.00	2(part time)
Superintendent road construction.....do.....	1,860.00	1(part time)
Superintendent road construction.....do.....	1,740.00	1(part time)
Engineer economist.....do.....	2,340.00	1(part time)
Engineer economist.....do.....	2,220.00	1
Engineer economist.....do.....	2,100.00	1(part time)
Engineer economist.....do.....	1,920.00	..
Engineer economists.....do.....	1,800.00	2(par. time)
Engineer draftsman.....do.....	1,800.00	1
Engineer draftsman.....do.....	1,740.00	1
Engineer draftsman.....do.....	1,600.00	..
Engineer draftsmen.....do.....	1,500.00	2
Topographic draftsmen.....do.....	1,200.00	2 (temp.)
Clerk.....do.....	2,000.00	..
Clerk.....do.....	1,500.00	1 (temp.)
Clerk.....do.....	1,400.00	1 (temp.)
Clerk.....do.....	1,120.00	..
Clerk †.....do.....	1,100.00	1
Clerks, watchmen, and messenger boys, \$1,000 to \$480.....do.....	240.00	16 (temp.)
Charwoman †.....do.....	240.00	16 (temp.)
Wages:		
Mechanic †.....do.....	1,500.00	..
Skilled laborer *.....do.....	1,200.00	1(part time)
Laborer.....do.....	840.00	1(part time)
	68	75
Salaries.....	\$88,000.00	\$88,669.53
Wages.....	1,500.00	1,984.00
Other objects of expenditure:		
Stationery.....	1,500.00	1,657.80
Traveling expenses.....	42,500.00	32,604.26
Equipment and material.....	3,220.00	3,504.44
Miscellaneous items.....	1,500.00	1,527.93
Total.....	138,220.00	129,947.96

\* Transferred to statutory roll in Agricultural act for 1919, from administrative expenses.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Public Roads—Continued.*

- (72) For investigations of the chemical and physical character of road materials [§51,220] (acts Mar. 3, 1905, vol. 33, pp. 882, 883, sec. 1; Oct. 1, 1918, vol. 40, pp. 1000, 1001, sec. 1) ----- \$47,020.00

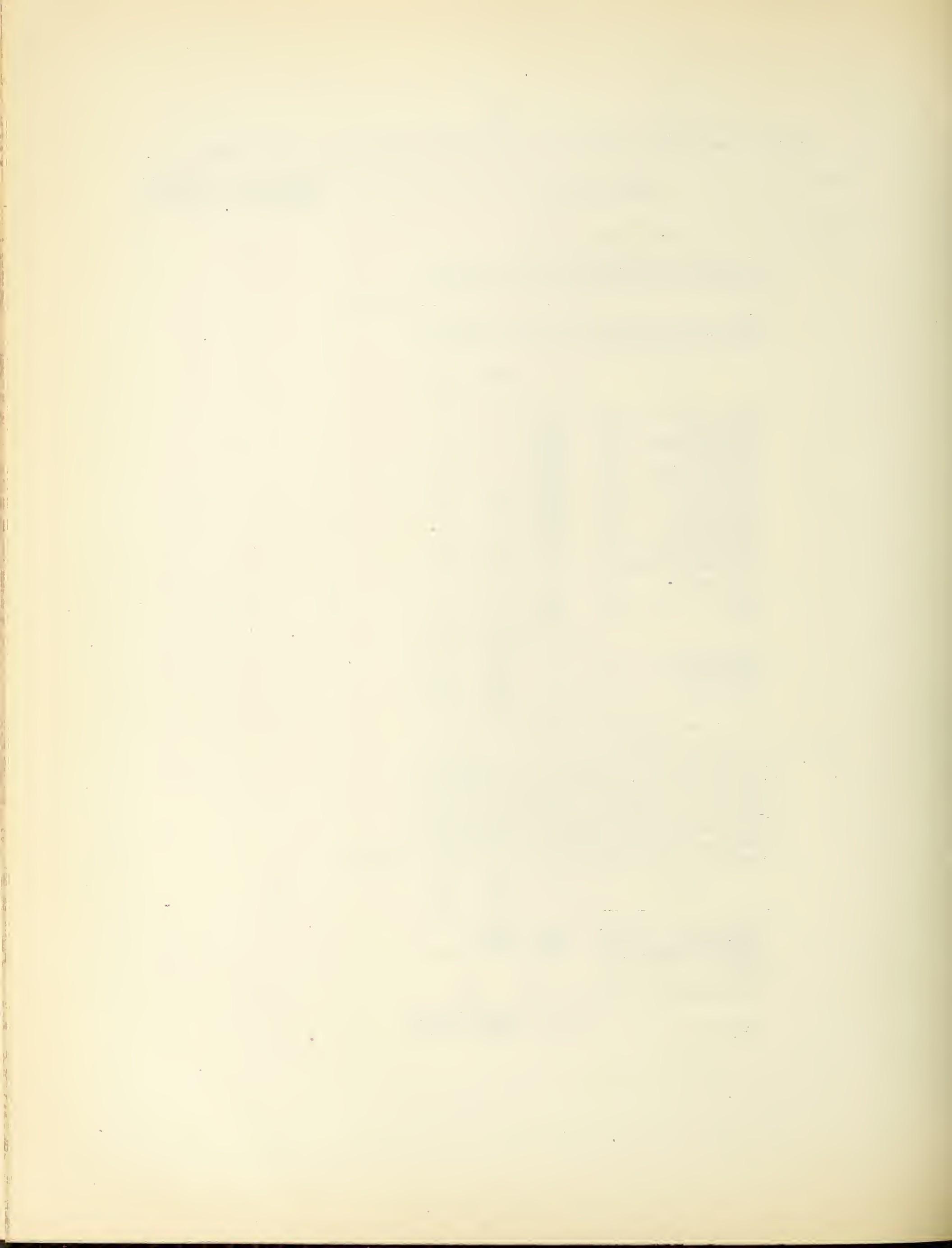
NOTE.—There is an apparent decrease in this item of \$4,200, due to the transfer to the statutory roll of 1 instrument maker, at \$1,800, 2 laborers at \$900 each, and 1 laborer at \$600.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Chemical engineer in charge per annum..	\$3,840.00	1	1
Mechanical engineer.....do.....	3,500.00	1	1
Engineer of tests.....do.....	3,250.00	1	1
Assistant testing engineers.....do.....	2,000.00	2 (1 new)	1
Assistant testing engineer.....do.....	1,800.00	..	1 (temp.)
Economist geologist.....do.....	3,000.00	1	1
Petrographer.....do.....	1,600.00	1	1
Aid in mineral technology.....do.....	1,800.00	1	1
Chemist.....do.....	2,640.00	..	1 (temp.)
Chemist.....do.....	2,400.00	1 (new)	..
Assistant chemist.....do.....	2,000.00	1	1
Assistant chemist.....do.....	1,680.00	1 (temp.)	1 (temp.)
Assistant chemist.....do.....	1,400.00	1 (temp.)	1 (temp.)
Assistant in chemistry.....do.....	1,320.00	1	..
Assistant in chemistry.....do.....	1,170.00	..	1
Junior chemist.....do.....	1,200.00	1 (new)	..
Laboratory assistant.....do.....	1,200.00	1	..
Laboratory aid.....do.....	1,080.00	1 (temp.)	1 (temp.)
Laboratory assistants, apprentices and student assistants, \$900 to \$300. do.....	-----	13 (10 temp., 3 new)	11 (temp.)
Instrument maker †. do.....	1,800.00	..	1
Wages:			
Laborers †.....do.....	900.00	..	2
Laborer †.....do.....	600.00	..	1
Laborers.....do.....	600.00	3 (temp.)	3 (temp.)
		32	32
Salaries.....	\$38,630.00	\$31,932.38	
Wages.....	500.00	1,919.50	
Other objects of expenditure:			
Traveling expenses.....	2,000.00	2,441.35	
Equipment and material.....	4,800.00	5,310.11	
Miscellaneous items.....	1,090.00	2,826.47	
Total.....	47,020.00	44,429.81	

† Recommended for transfer to statutory roll in estimates for 1920.

- (73) For conducting field experiments and various methods of road construction and maintenance, and investigations concerning various road materials and preparations; for investigating and developing equipment intended for the preparation and application of bituminous and other binders; for the purchase of materials and equipment; for the employment of assistants and labor; for the erection of buildings; such experimental work to be confined as nearly as possible to one point during the fiscal year (*same acts*) -- 60,000.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Engineer of tests.....per annum..	\$3,250.00	1(part time)	..
Highway engineer.....do.....	2,000.00	2(part time)	..
Superintendent road construction..do.....	1,920.00	1(part time)	..
Assistant mechanical engineer.....do.....	2,000.00	..	1 (temp.)
Collaborators.....per diem..	2.00	6	7
Wages:			
Road patrolman, \$1,050 to \$720.....per annum..	-----	2	2
Laborers, \$1,020 to \$840.....do.....	-----	2	2
		14	12
Salaries.....	\$5,000.00	\$1,336.64	
Wages.....	5,000.00	4,204.25	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Public Roads—Continued.**Road building and maintenance—Continued.*

	Rate.	Estimated, 1920.	Expended, 1918.
Other objects of expenditure:			
Traveling expenses.....		5,000.00	2,870.97
Miscellaneous items.....		12,000.00	9,834.20
Construction work.....		<sup>a</sup> 33,000.00	(b)
Total.....		60,000.00	18,246.06

<sup>a</sup> It is not practicable to make a detailed estimate of construction work for 1920, as it has not been determined at this time.

<sup>b</sup> No construction work was done during the fiscal year 1918, but experimental maintenance of 15½ miles of road in Montgomery County, Md., 7 miles in Alexandria County, Va., and 6½ miles in Fairfax County, Va., was conducted during the year at a cost to the department of \$9,485.32.

- (74) For investigating and reporting upon the utilization of water in farm irrigation, including the best methods to apply in practice; the different kinds of power and appliances, and the development of equipment for farm irrigation; the flow of water in ditches, pipes, and other conduits; the duty, apportionment, and measurement of irrigation water; the customs, regulations, and laws affecting irrigation; for the purchase and installation of equipment for experimental purposes; for the giving of expert advice and assistance; for the preparation and illustration of reports and bulletins on irrigation; for the employment of assistants and labor in the city of Washington and elsewhere; for rent outside of the District of Columbia; and for supplies and all necessary expenses (*acts Mar. 3, 1905, vol. 33, pp. 882, 883, sec. 1; Oct. 1, 1918, vol. 40, pp. 1000, 1001, sec. 1*) ----- \$82,440.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Chief, irrigation investigations.....per annum.....	\$3,750.00	1	1
Irrigation economist.....do.....	3,000.00	1	1
Assistant irrigation economist.....do.....	1,800.00	1	1
Assistant irrigation economist.....do.....	1,620.00	..	1 (temp.)
Senior irrigation engineer.....do.....	2,500.00	1	1
Senior irrigation engineers.....do.....	2,400.00	2	3
Senior irrigation engineers.....do.....	2,280.00	..	2 (1 temp.)
Senior irrigation engineers.....do.....	2,220.00	2	4 (temp.)
Senior irrigation engineer.....do.....	2,160.00	..	1 (temp.)
Senior irrigation engineers.....do.....	2,000.00	2	2
Senior irrigation engineer.....do.....	1,980.00	1	1
Assistant irrigation engineers.....do.....	1,620.00	3	..
Assistant irrigation engineers.....do.....	1,500.00	3	5
Assistant irrigation engineers.....do.....	1,320.00	..	2
Assistant irrigation engineers.....do.....	1,200.00	2	2
Irrigation manager.....do.....	1,500.00	1(parttime)	1(parttime)
Irrigation farmer.....do.....	1,440.00	1	1
Senior drainage engineer.....do.....	2,400.00	1	1
Senior drainage engineers.....do.....	1,800.00	2	2
Senior drainage engineer.....do.....	1,620.00	1	..
Senior drainage engineer.....do.....	1,440.00	..	1
Agents. \$150 to \$10.....per month.....		10 (temp.)	10 (temp.)
		35	43
Salaries.....		\$50,000.00	\$58,249.02
Other objects of expenditure:			
Stationery.....		500.00	909.00
Traveling expenses.....		27,500.00	35,143.71
Equipment and material.....		1,440.00	1,844.96
Miscellaneous items.....		3,000.00	5,376.97
Total.....		82,440.00	101,523.66



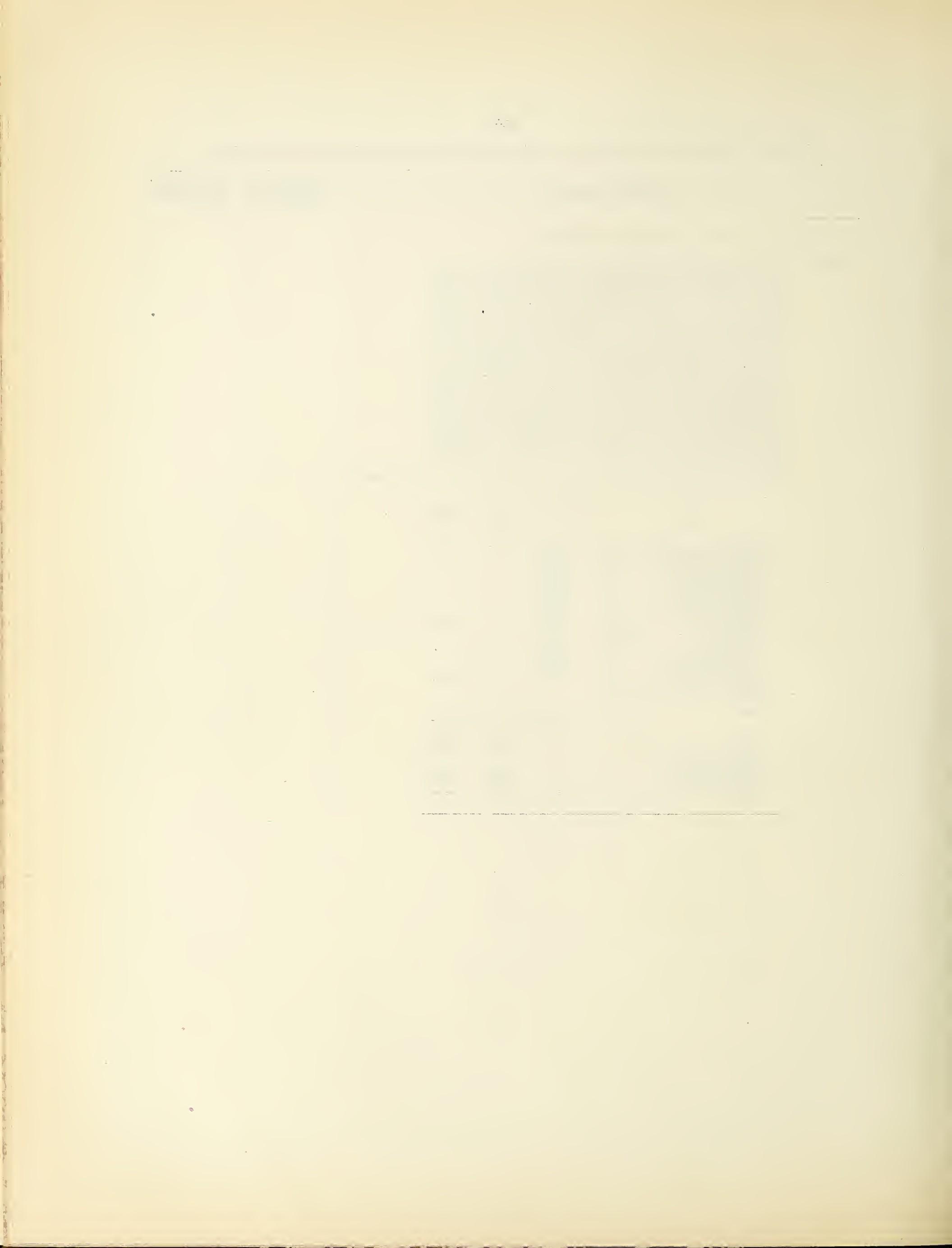
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Public Roads—Continued.*

- (75) For investigating and reporting upon farm drainage and upon the drainage of swamp and other wet lands which may be made available for agricultural purposes; for preparing plans for the removal of surplus water by drainage, and for giving expert assistance by advice or otherwise in the drainage of such lands; for conducting field experiments and investigations concerning the construction and maintenance of farm drainage work; for investigating and developing equipment intended for the construction and maintenance of farm drainage structures; for the purchase of materials and equipment; and for preparing and illustrating reports and bulletins on drainage; and for the employment of assistants and labor in the city of Washington and elsewhere; for rent outside of the District of Columbia, and for supplies and all necessary expenses (*acts Mar. 3, 1905, vol. 33, pp. 882, 883, sec. 1; Oct. 1, 1918, vol. 40, pp. 1000, 1001, sec. 1*)----- \$73,760.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<i>Salaries:</i>			
Chief of drainage investigations, per annum.	\$3,500.00	1	1
Senior drainage engineer.....do.....	2,640.00	1	..
Senior drainage engineer.....do.....	2,400.00	1	1
Senior drainage engineers.....do.....	2,280.00	2	..
Senior drainage engineer.....do.....	2,220.00	1	1
Senior drainage engineers.....do.....	2,100.00	4	7
Senior drainage engineer.....do.....	2,000.00	..	1
Senior drainage engineers.....do.....	1,980.00	1	2
Drainage engineers.....do.....	1,800.00	4	4
Drainage engineer.....per diem.....	10.50	1 (temp.)	1 (temp.)
Drainage engineer.....per annum.....	1,680.00	1	..
Drainage engineer.....do.....	1,440.00	1	1
Drainage engineer.....do.....	1,380.00	2	..
Drainage engineer.....do.....	1,200.00	..	2
Junior drainage engineers.....do.....	1,200.00	4	4
Junior drainage engineers.....do.....	1,080.00	2	2
Junior drainage engineers.....do.....	960.00	2 (temp.)	2 (temp.)
Agents and collaborators, \$75 to \$10.....per month.....	.....	8	8
<i>Wages:</i>			
Laborer.....per annum.....	600.00	1 (temp.)	1 (temp.)
.....	.....	37	38
<i>Salaries.....</i>			
.....	\$40,000.00	\$38,686.05	
Wages.....	500.00	330.00	
<i>Other objects of expenditure:</i>			
Traveling expenses.....	25,000.00	19,197.28	
Equipment and material.....	3,500.00	1,702.83	
Miscellaneous items.....	4,760.00	3,197.93	
Total.....	73,760.00	63,114.09	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

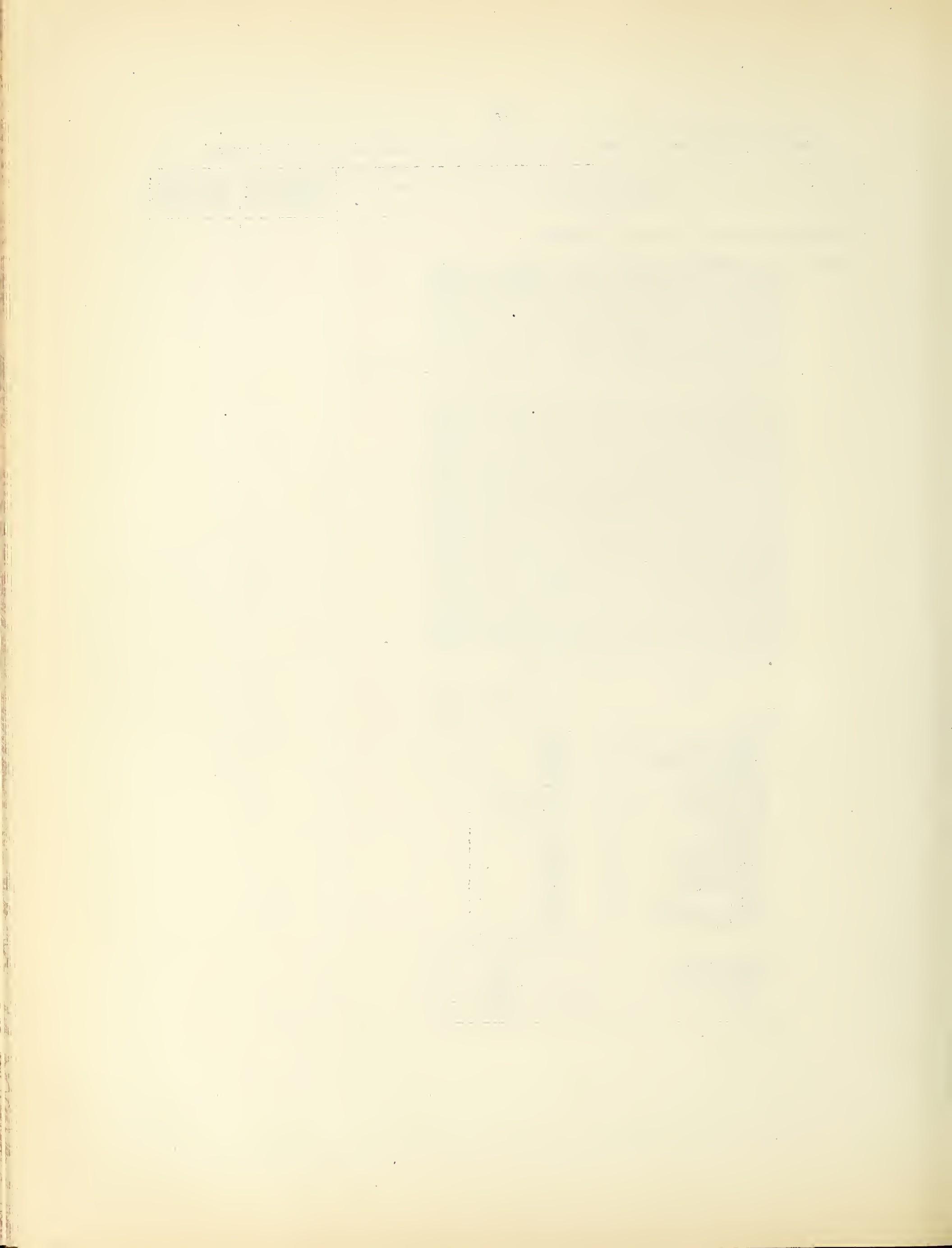
General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Public Roads—Continued.*

- (76) For investigating farm domestic water supply and drainage disposal, the construction of farm buildings, and other rural engineering problems involving mechanical principles, including the erection of such structures outside of the District of Columbia as may be necessary for experimental purposes only, the employment of labor in the city of Washington and elsewhere, supplies, and all other necessary expenses [§25,000] (acts Mar. 3, 1905, vol. 33, pp. 882, 883, sec. 1; Oct. 1, 1918, vol. 40, pp. 1000, 1001, sec. 1). \$75,000.00

NOTE.—There is an increase of \$50,000 in the above item. This amount is needed in order to quickly and adequately further the department's efforts looking to the development of efficient farm machinery. It is unnecessary to emphasize the importance of farm machinery in agricultural operations. The maximum efficiency can be attained only through the development of simple, standardized, and unusually efficient machinery. Because of its relative importance, the tractor is receiving particular attention at this time. Manufacturers are making concerted efforts to standardize the tractor, and a thorough investigation of existing types should be made by a disinterested agency. There is a wide variation in the practice of manufacturers regarding the horsepower ratings of engines, the rate of horsepower required to operate different machines, the height of the hitch above the ground, the recommended speeds, the size of pulleys, the width of belts, and many other details of construction. In many cases these variations are due to the fact that the machines originated at different factories. It should be possible to decide on standards for the majority of them and to have the manufacturers agree to construct to those standards. The results obtained through governmental research and experiment in this field will be authoritative and will have the confidence of the public. This character of work can not be carried on without the installation of a specially designed testing plant and the employment of the requisite personnel to undertake such a series of tests. It is planned to use a part of the laboratory building at the Arlington farm for this purpose. The cost of properly equipping the plant is estimated at \$20,000, and \$30,000 will be required for salaries and for travel and miscellaneous expenses.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Mechanical engineer, in charge, per annum	\$3,500.00	1	1 (pt. time)
Architect.....do.....	2,700.00	1	1
Agricultural engineer.....do.....	2,500.00	1	1
Assistant mechanical engineers.....do.....	2,000.00	2	1
Assistant mechanical engineer.....do.....	1,800.00	1	1
Assistant mechanical engineer.....do.....	1,600.00	..	1
Hydraulic engineer.....do.....	2,000.00	1	1
Structural designer.....do.....	3,000.00	1 (new)	..
Structural draftsman.....do.....	1,500.00	1 (new)	..
Senior rural engineers.....do.....	2,700.00	3 (new)	..
Senior rural engineers.....do.....	2,400.00	3 (new)	..
Junior rural engineers, \$2,100 to \$1,800.....do.....	2,100.00	6 (new)	..
Barn architect.....do.....	1,920.00	1	1
Architectural draftsman.....do.....	1,900.00	1	1
Architectural draftsman.....do.....	1,600.00	1	..
Architectural draftsman.....do.....	1,500.00	1	1
Architectural draftsman.....do.....	1,350.00	1	..
Architectural draftsman.....do.....	1,000.00	..	1
Architectural draftsman.....do.....	900.00	..	1
Estimator.....do.....	1,800.00	1	..
Estimator.....do.....	1,500.00	..	1
Assistant in rural engineering.....do.....	1,620.00	1	1
Rural engineering draftsmen.....do.....	1,500.00	2 (new)	..
Mechanical draftsmen.....do.....	1,500.00	2 (new)	..
		33	15
Salaries.....		\$50,000.00	\$20,235.60
Other objects of expenditure:			
Traveling expenses.....	4,000.00	1,570.85	
Equipment and material.....	20,000.00	.....	
Miscellaneous items.....	1,000.00	312.42	
Total.....	75,000.00	22,118.87	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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<i>General Expenses, Bureau of Public Roads—Continued.</i>		
(77) For general administrative expenses connected with the above-mentioned lines of investigations and experiments (acts Mar. 3, 1905, vol. 33, pp. 882, 883, sec. 1; Oct. 1, 1918, vol. 40, pp. 1000, 1001, sec. 1) ----- \$16,000.00		

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Clerk.....per annum..	\$2,000.00	Number.	Number.
Clerk*.....do.....	1,800.00	..	1 (part time)
Clerk*.....do.....	1,600.00	..	1 (part time)
Clerk*.....do.....	1,500.00	..	1 (part time)
Clerk*.....do.....	1,380.00	..	1 (part time)
Clerk.....do.....	1,400.00	..	1 (part time)
Clerk*.....do.....	900.00	..	1 (part time)
Messenger boy*.....do.....	480.00	..	1 (part time)
Watchman.....do.....	720.00	..	1 (part time)
Clerks, \$1,800 to \$900.....do.....	.....	6	..
Wages:			
Skilled laborer*.....do.....	1,200.00	..	1 (part time)
.....	.....	6	10
Salaries.....	\$5,000.00	\$5,118.62	
Wages.....	.....	550.00	
Other objects of expenditure:			
Stationery.....	2,000.00	1,275.18	
Traveling expenses.....	250.00	98.22	
Equipment and material.....	1,200.00	120.58	
Telephone and telegraph service.....	2,750.00	1,638.02	
Miscellaneous items.....	4,800.00	5,939.49	
Total.....	16,000.00	14,740.11	

\* Transferred to statutory roll in Agricultural act for 1919.

In all, for general expenses ----- \$530,680.00 \$489,520.00

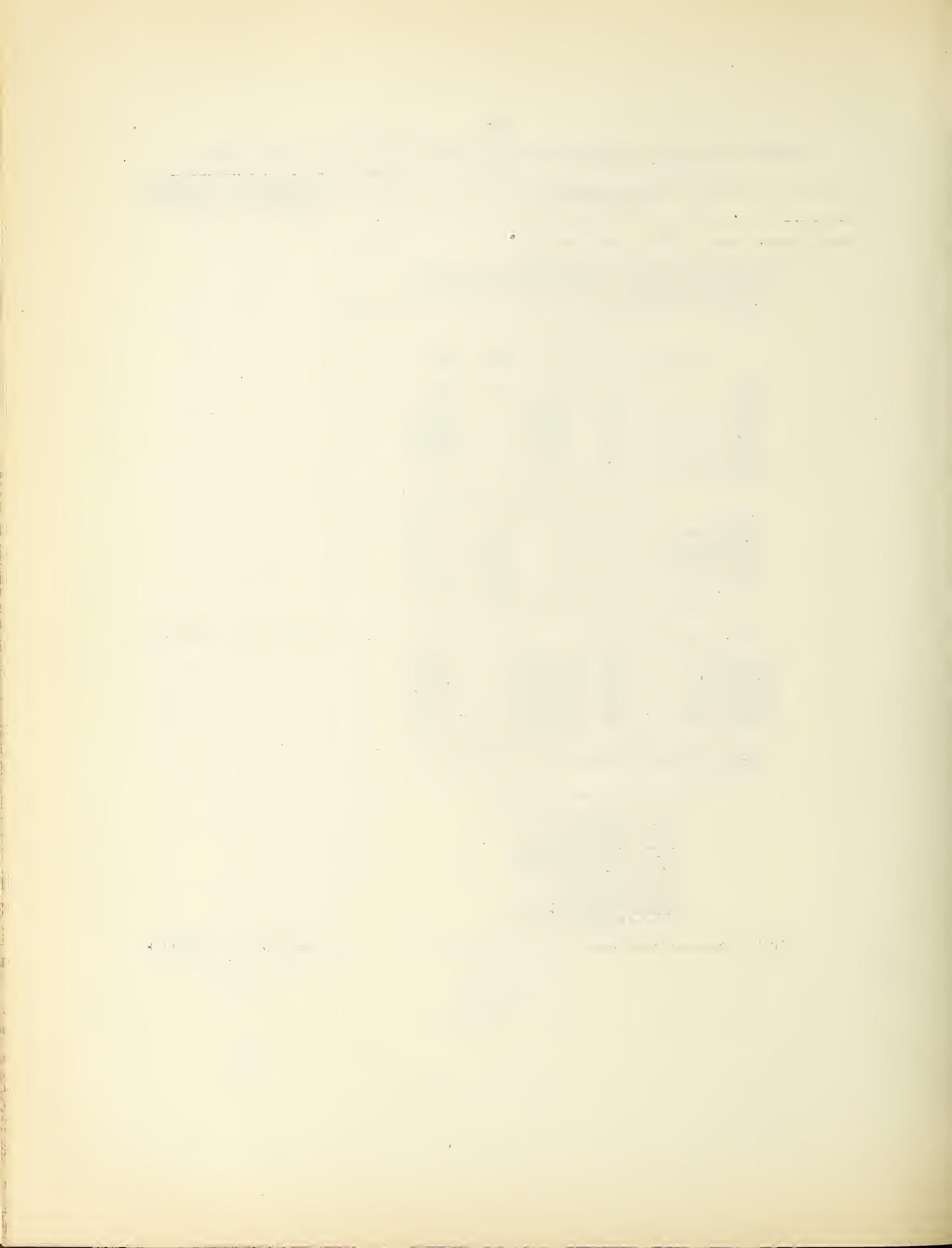
Appropriations for 1910.....	\$100,000	Estimates for 1911.....	\$92,980
Appropriations for 1911.....	92,980	Estimates for 1912.....	131,840
Appropriations for 1912.....	126,700	Estimates for 1913.....	189,456
Appropriations for 1913.....	165,100	Estimates for 1914.....	331,840
Appropriations for 1914.....	232,000	Estimates for 1915.....	341,390
Appropriations for 1915.....	300,050	Estimates for 1916.....	597,700
Appropriations for 1916.....	510,505	Estimates for 1917.....	523,625
Appropriations for 1917.....	510,820	Estimates for 1918.....	611,240
Appropriations for 1918.....	606,240	Estimates for 1919.....	565,420
Appropriations for 1919.....	489,520	Estimates for 1920.....	530,680

*Statement of clerks employed in District of Columbia under lump-sum appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).*

GENERAL EXPENSES—BUREAU OF PUBLIC ROADS.

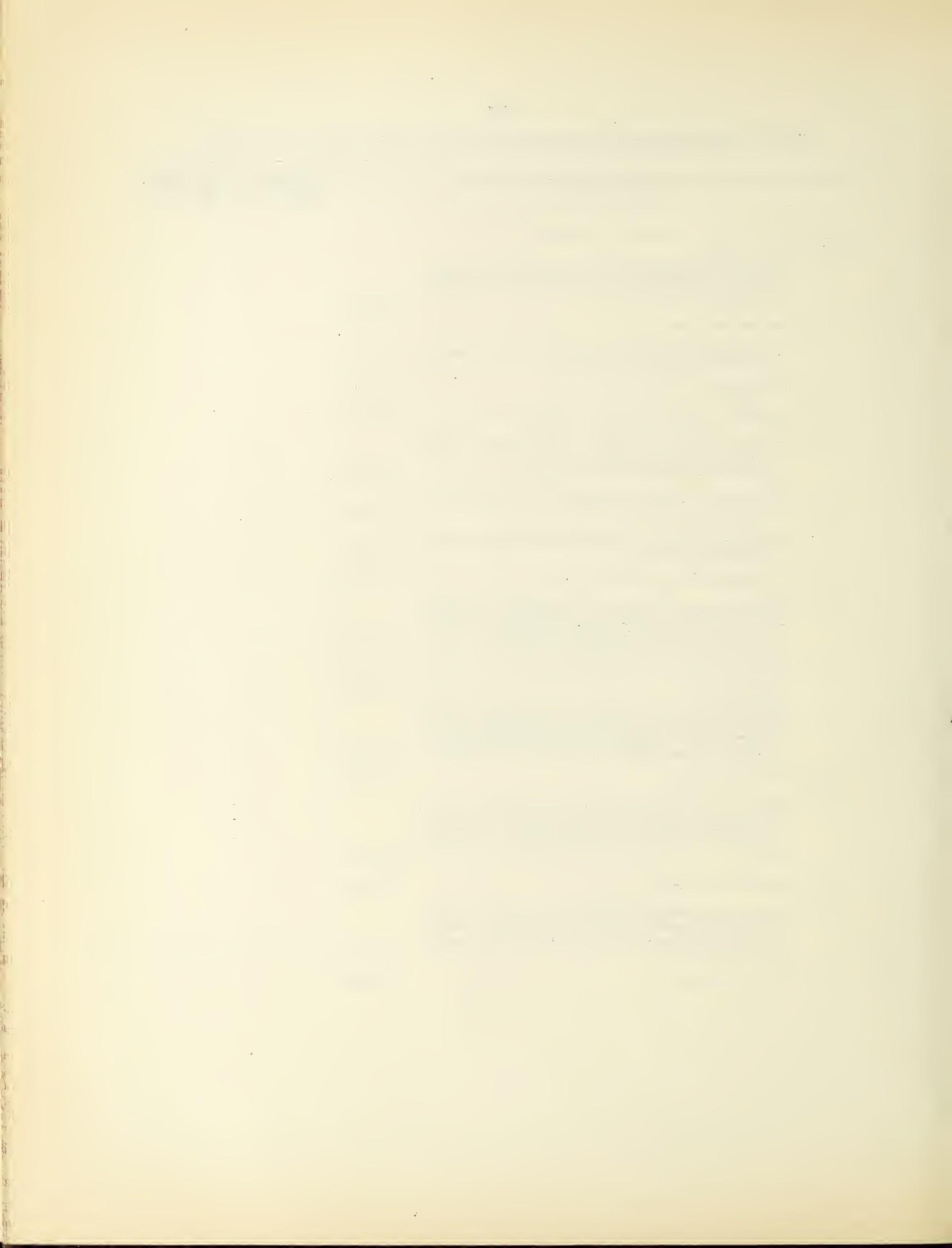
- 1 clerk, \$2,000 per annum.
- 2 clerks, at \$1,800 each per annum.
- 1 clerk, \$1,600 per annum.
- 2 clerks, at \$1,500 each per annum.
- 2 clerks, at \$1,380 each per annum.
- 2 clerks, at \$1,260 each per annum.
- 1 clerk, \$1,200 per annum.
- 1 clerk, \$1,120 per annum.
- 1 clerk, \$1,100 per annum.
- 10 clerks, at \$1,000 each per annum.
- 6 clerks, at \$900 each per annum.

Total for Bureau of Public Roads ----- 642,820.00 593,540.00



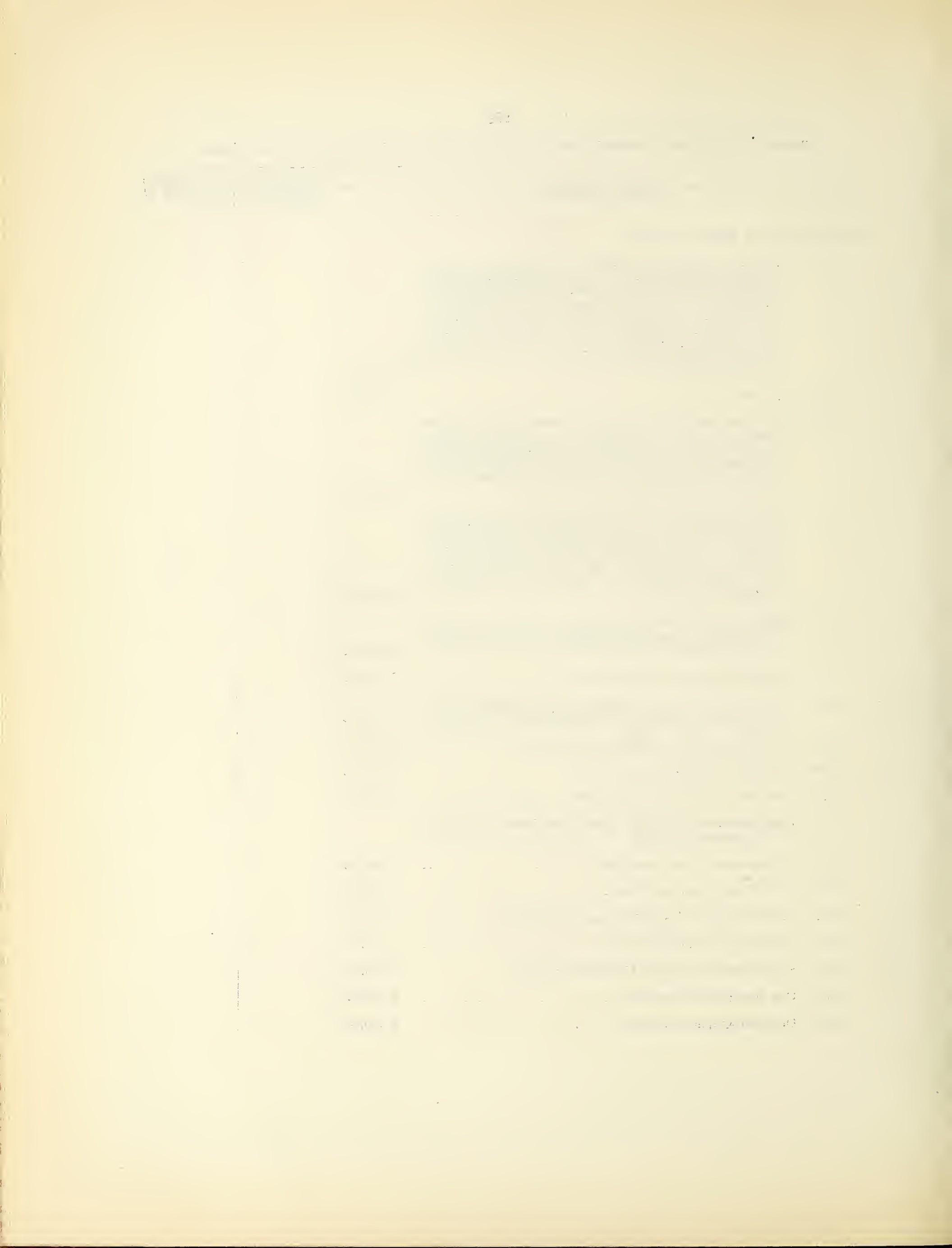
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<b>BUREAU OF MARKETS.</b>		
<i>Salaries, Bureau of Markets—</i>		
(1) One chief of bureau ( <i>R. S., p. 87, secs. 520-523; acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, pp. 1001-1002, sec. 1</i> )-----	\$4,500.00	
(2) One chief clerk ( <i>same acts</i> )-----	2,000.00	
(3) One administrative assistant (by transfer from lump fund for administrative expenses) ( <i>same acts</i> )-----	3,000.00	
(4) One administrative assistant ( <i>same acts</i> )-----	2,500.00	
(5) One clerk in charge of supplies and accounts ( <i>same acts</i> )-----	2,250.00	
(6) Two executive clerks, at \$2,000 each (by transfer of 1 each from lump funds for collecting and distributing market information and warehouse act) ( <i>same acts</i> )-----	4,000.00	
(7) One clerk (by transfer from lump fund for market reports on live stock and meats) ( <i>same acts</i> )-----	2,000.00	
(8) One executive assistant (by transfer from lump fund for grain standards act) ( <i>same acts</i> )-----	1,980.00	
(9) One administrative assistant ( <i>same acts</i> )-----	1,980.00	
(10) Eleven clerks, class 4 (increase of 4 by transfer of 1 each from lump funds for marketing and distributing farm products, collecting and distributing market information, cotton futures act, and grain standardization) ( <i>same acts</i> )-----	19,800.00	
(11) One clerk (by transfer from lump fund for grain standards act) ( <i>same acts</i> )-----	1,740.00	
(12) Fourteen clerks, class 3 (increase of 4 by transfer of 1 each from lump funds for collecting and distributing market information, market reports on live stock and meats, grain standards act, and stimulating agriculture) ( <i>same acts</i> )-----	22,400.00	
(13) One clerk ( <i>same acts</i> )-----	1,440.00	
(14) Thirty-five clerks, class 2 (increase of 9 by transfer from lump funds, 1 from marketing and distributing farm products, 1 from market reports on live stock and meats, 4 from grain standards act, and 3 from stimulating agriculture) ( <i>same acts</i> )-----	49,000.00	
(15) One clerk ( <i>same acts</i> )-----	1,380.00	
(16) Six clerks, at \$1,320 each (increase of 5 by transfer from lump funds, 2 from market reports on live stock and meats, 1 from grain standards act, and 2 from stimulating agriculture) ( <i>same acts</i> )-----	7,920.00	
(17) One clerk ( <i>same acts</i> )-----	1,300.00	



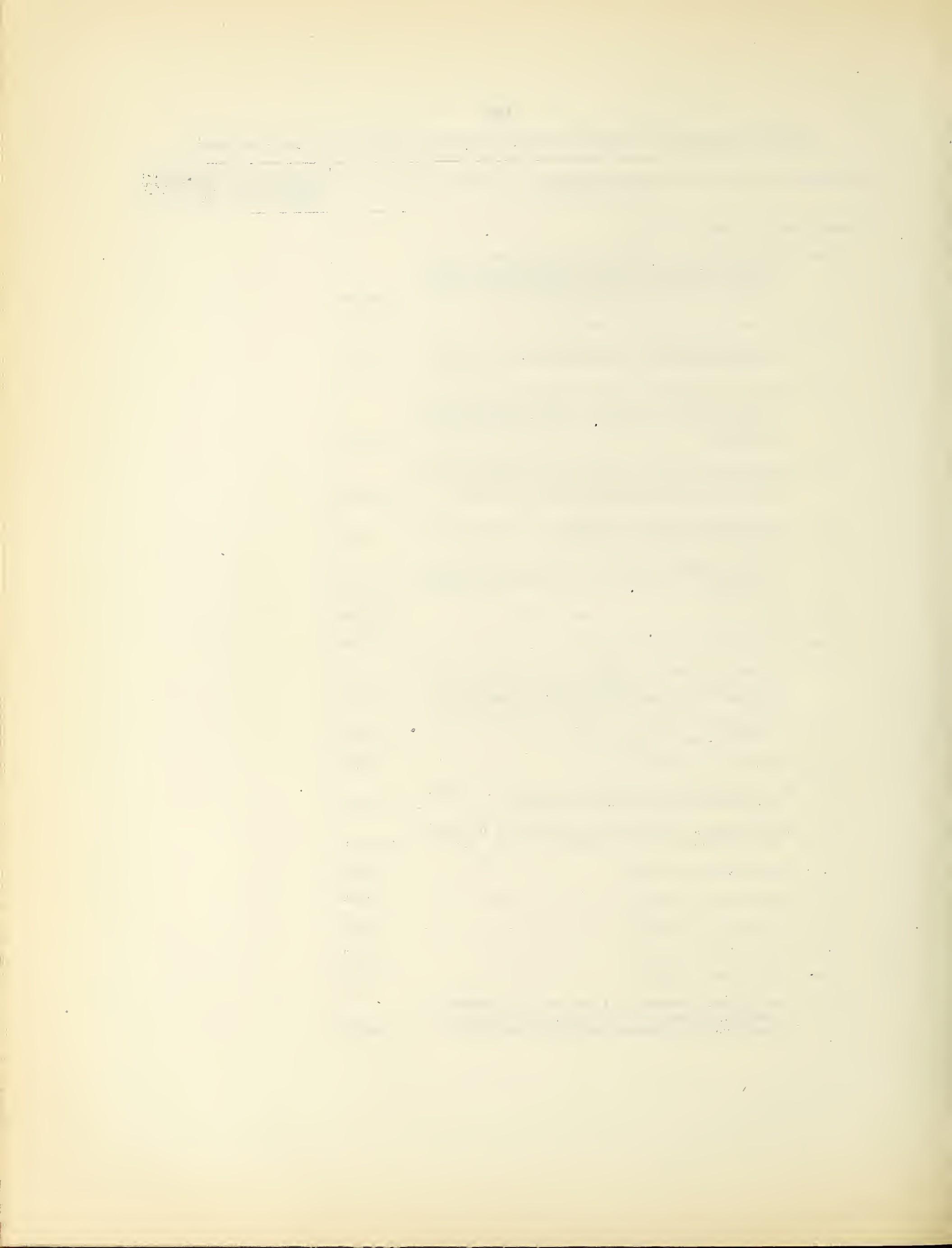
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Markets—Continued.</i>		
(18) One hundred and sixty-six clerks, class 1 (increase of 75 by transfer from lump funds, 5 from marketing and distributing farm products, 2 from collecting and distributing market information, 5 from market inspection of perishable foods, 3 from grain standardization, 1 from standard container act, 11 from grain standards act, 1 from warehouse act, and 47 from stimulating agriculture) ( <i>R. S.</i> , p. 87, secs. 520-523; <i>acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, pp. 1001-1002, sec. 1</i> )-----	\$199, 200. 00	
(19) One clerk ( <i>same acts</i> )-----	1, 140. 00	
(20) Forty-eight clerks, at \$1,100 each (increase of 45 by transfer from lump funds, 1 from marketing and distributing farm products, 2 from collecting and distributing market information, 2 from market inspection of perishable foods, 1 from cotton futures act, 1 from grain standards act, and 38 from stimulating agriculture) ( <i>same acts</i> )-----	52, 800. 00	
(21) One hundred clerks, at \$1,000 each (increase of 25 by transfer from lump funds, 2 from marketing and distributing farm products, 2 from collecting and distributing market information, 1 from market inspection of perishable foods, 1 from rural organization, 1 from grain standardization, 2 from grain standards act, and 16 from stimulating agriculture) ( <i>same acts</i> )-----	100, 000. 00	
(22) Fifteen clerks, at \$1,080 each (increase of 10 by transfer from lump funds, 1 from grain standards act and 9 from stimulating agriculture) ( <i>same acts</i> )-----	16, 200. 00	
(23) Seven clerks, at \$1,020 each ( <i>same acts</i> )-----	7, 140. 00	
(24) Two clerks, at \$960 each (increase of 1 by transfer from lump fund for State cooperation in marketing work) ( <i>same acts</i> )-----	1, 920. 00	
(25) Twenty-four clerks, at \$900 each ( <i>same acts</i> )-----	21, 600. 00	
(26) Three clerks, at \$840 each ( <i>same acts</i> )-----	2, 520. 00	
(27) Two clerks, at \$720 each ( <i>same acts</i> )-----	1, 440. 00	
(28) [One mechanical assistant, \$1,380, transferred to statutory roll, Secretary's office.]		
(29) One laboratory helper ( <i>same acts</i> )-----	900. 00	
(30) One laboratory aid ( <i>same acts</i> )-----	960. 00	
(31) Three laboratory aids, at \$900 each ( <i>same acts</i> )-----	2, 700. 00	
(32) One laboratory aid ( <i>same acts</i> )-----	840. 00	
(33) Seven laboratory aids, at \$720 each ( <i>same acts</i> )-----	5, 040. 00	
(34) One photographer ( <i>same acts</i> )-----	1, 400. 00	
(35) One photographer ( <i>same acts</i> )-----	1, 200. 00	



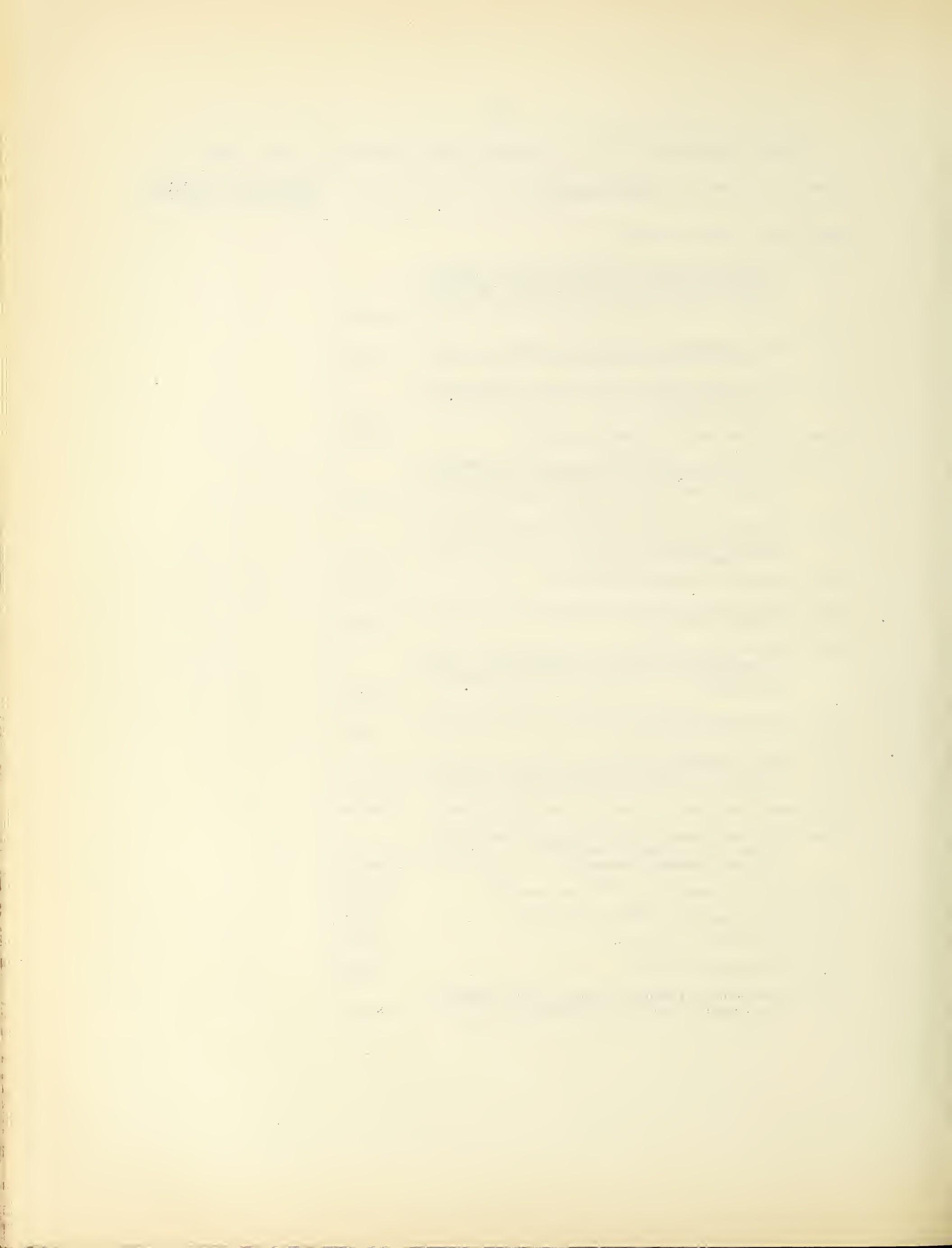
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Markets—Continued.</i>		
(36) One superintendent of telegraph (by transfer from lump fund for collecting and distributing market information) ( <i>R.S., p. 87, secs. 520-523; acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, pp. 1001-1002, sec. 1</i> )-----	\$2,000.00	
(37) One supervising telegrapher ( <i>same acts</i> )-----	1,620.00	
(38) One telegraph operator (by transfer from lump fund for collecting and distributing market information) ( <i>same acts</i> )-----	1,600.00	
(39) Fifty-seven telegraph operators, at \$1,400 each (increase of 56 by transfer from lump funds, 6 from collecting and distributing market information, 1 from market reports on live stock and meats, and 49 from stimulating agriculture) ( <i>same acts</i> )-----	79,800.00	
(40) Two telegraph operators, at \$1,320 each (by transfer of 1 each from lump funds for collecting and distributing market information and stimulating agriculture) ( <i>same acts</i> )-----	2,640.00	
(41) One telegraph operator (by transfer from lump fund for stimulating agriculture) ( <i>same acts</i> )-----	1,300.00	
(42) Seventeen telegraph operators, at \$1,200 each (increase of 11 by transfer from lump fund for stimulating agriculture) ( <i>same acts</i> )-----	20,400.00	
(43) Seven telegraph operators, at \$1,080 each ( <i>same acts</i> )-----	7,560.00	
(44) One telegraph operator ( <i>same acts</i> )-----	1,020.00	
(45) Two telephone operators, at \$900 each (by transfer of 1 each from lump funds for collecting and distributing market information and stimulating agriculture) ( <i>same acts</i> )-----	1,800.00	
(46) One telephone operator (by transfer from lump fund for stimulating agriculture) ( <i>same acts</i> )-----	840.00	
(47) One telephone operator ( <i>same acts</i> )-----	600.00	
(48) One draftsman (by transfer from lump fund for marketing and distributing farm products) ( <i>same acts</i> )-----	1,400.00	
(49) Three draftsmen, at \$1,200 each (increase of 1 by transfer from lump fund for grain standards act) ( <i>same acts</i> )-----	3,600.00	
(50) One draftsman ( <i>same acts</i> )-----	900.00	
(51) One map tracer ( <i>same acts</i> )-----	900.00	
(52) One map tracer ( <i>same acts</i> )-----	720.00	
(53) One map tracer ( <i>same acts</i> )-----	600.00	
(54) One map tracer ( <i>same acts</i> )-----	480.00	
(55) Four machine operators, at \$1,200 each (by transfer of 2 multigraph operators and 2 mimeograph operators from lump fund for stimulating agriculture) ( <i>same acts</i> )-----	4,800.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Markets—Continued.</i>		
(56) Two machine operators, at \$1,100 each (by transfer of 2 multigraph operators from lump fund for stimulating agriculture) ( <i>R. S. p. 87, secs. 520-523; acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, pp. 1001-1002, sec. 1</i> )-----	\$2, 200. 00	
(57) One machine operator (by transfer of 1 graphotype operator from lump fund for stimulating agriculture) ( <i>same acts</i> )-----	1, 000. 00	
(58) Three chauffeurs, at \$900 each (by transfer from lump funds, 2 from cotton futures act and 1 from stimulating agriculture) ( <i>same acts</i> )-----	2, 700. 00	
(59) Two skilled laborers, at \$900 each ( <i>same acts</i> )-----	1, 800. 00	
(60) Three laborers, at \$840 each (increase of 2 by transfer of 1 each from lump funds for collecting and distributing market information and stimulating agriculture) ( <i>same acts</i> )-----	2, 520. 00	
(61) Six laborers, at \$720 each (increase of 4 by transfer from lump funds, 1 from cotton futures act and 3 from stimulating agriculture) ( <i>same acts</i> )-----	4, 320. 00	
(62) Four laborers, at \$660 each ( <i>same acts</i> )-----	2, 640. 00	
(63) One messenger (by transfer from lump fund for stimulating agriculture) ( <i>same acts</i> )-----	720. 00	
(64) Ten messengers, at \$540 each (by transfer from lump funds, 1 from market inspection of perishable foods, 1 from grain standards act, and 8 from stimulating agriculture) ( <i>same acts</i> )-----	5, 400. 00	
(65) One messenger (by transfer from lump fund for grain standards act) ( <i>same acts</i> )-----	480. 00	
(66) Eleven messenger boys or laborers, at \$600 each (increase of 4 by transfer of 4 laborers from lump funds, 1 from cotton futures act, and 3 from stimulating agriculture) ( <i>same acts</i> )-----	6, 600. 00	
(67) Seven messenger boys or laborers, at \$540 each ( <i>same acts</i> )-----	3, 780. 00	
(68) Twenty-one messenger boys or laborers, at \$480 each (increase of 1 by transfer of 1 messenger boy from lump fund for rural cooperation) ( <i>same acts</i> )-----	10, 080. 00	
(69) Fourteen messenger boys, at \$420 each ( <i>same acts</i> )-----	5, 880. 00	
(70) Two messenger boys, at \$360 each ( <i>same acts</i> )-----	720. 00	
(71) One messenger boy ( <i>same acts</i> )-----	300. 00	
(72) One charwoman ( <i>same acts</i> )-----	540. 00	
(73) Six charwomen, at \$480 each (increase of 1 by transfer from lump fund for cotton futures act) ( <i>same act</i> )-----	2, 880. 00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Markets—Continued.</i>		
(74) Six charwomen, at \$300 each (increase of 4 by transfer of 1 each from lump funds for rural cooperation, grain standardization, cotton futures act, and grain standards act) ( <i>R. S., p. 87, secs. 520-523; acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, pp. 1001-1002, sec. 1</i> )-----	\$1,800.00	
(75) Nine charwomen, at \$240 each (increase of 1 by transfer from lump fund for warehouse act) ( <i>same acts</i> )-----	2,160.00	\$739,290.00
Appropriations for 1915..... <sup>(1)</sup>	Estimates for 1916.....	\$51,120
Appropriations for 1916.....\$56,400	Estimates for 1917.....	134,980
Appropriations for 1917.....129,880	Estimates for 1918.....	198,420
Appropriations for 1918.....197,820	Estimates for 1919.....	387,850
Appropriations for 1919.....387,850	Estimates for 1920.....	739,290
<sup>1</sup> Salaries paid from lump-fund appropriation for office of markets.		
NOTE.—Apparent increase, \$351,440; actual increase, \$235,880, as follows:		
<i>Transfers from lump funds of this bureau in the Agricultural act, which funds have been correspondingly reduced.</i>		
1 administrative assistant, from administrative expenses.....	\$3,000	
2 executive clerks, at \$2,000 each, from collecting and distributing market information and warehouse act.....	4,000	
1 clerk, from market reports on live stock and meats.....	2,000	
1 executive assistant, from grain standards act.....	1,980	
4 clerks, class 4, from marketing and distributing farm products, collecting and distributing market information, cotton-futures act, and grain standardization.....	7,200	
1 clerk, from grain standards act.....	1,740	
3 clerks, class 3, from collecting and distributing market information, market reports on live stock and meats, and grain standards act.....	4,800	
6 clerks, class 2, 1 from marketing and distributing farm products, 1 from market reports on live stock and meats, and 4 from grain standards act.....	8,400	
3 clerks, at \$1,320 each, 2 from market reports on live stock and meats, and 1 from grain standards act....	3,960	
28 clerks, class 1, 5 from marketing and distributing farm products, 2 from collecting and distributing market information, 5 from market inspection of perishable foods, 3 from grain standardization, 1 from standard container act, 11 from grain standards act, and 1 from warehouse act.....	33,600	
7 clerks, at \$1,100 each, 1 from marketing and distributing farm products, 2 from collecting and distributing market information, 2 from market inspection of perishable foods, 1 from cotton-futures act, and 1 from grain standards act.....	7,700	
9 clerks, at \$1,000 each, 2 from marketing and distributing farm products, 2 from collecting and distributing market information, 1 from market inspection of perishable foods, 1 from rural cooperation, 1 from grain standardization, and 2 from grain standards act.....	9,000	
1 clerk, from grain standards act.....	1,080	
1 clerk, from State cooperation in marketing work.....	960	
1 superintendent of telegraph, from collecting and distributing market information.....	2,000	
1 telegraph operator, from collecting and distributing market information.....	1,600	
7 telegraph operators, at \$1,400 each, 6 from collecting and distributing market information, and 1 from market reports on live stock and meats.....	9,800	
1 telegraph operator, from collecting and distributing market information.....	1,320	
1 telephone operator, from collecting and distributing market information.....	900	



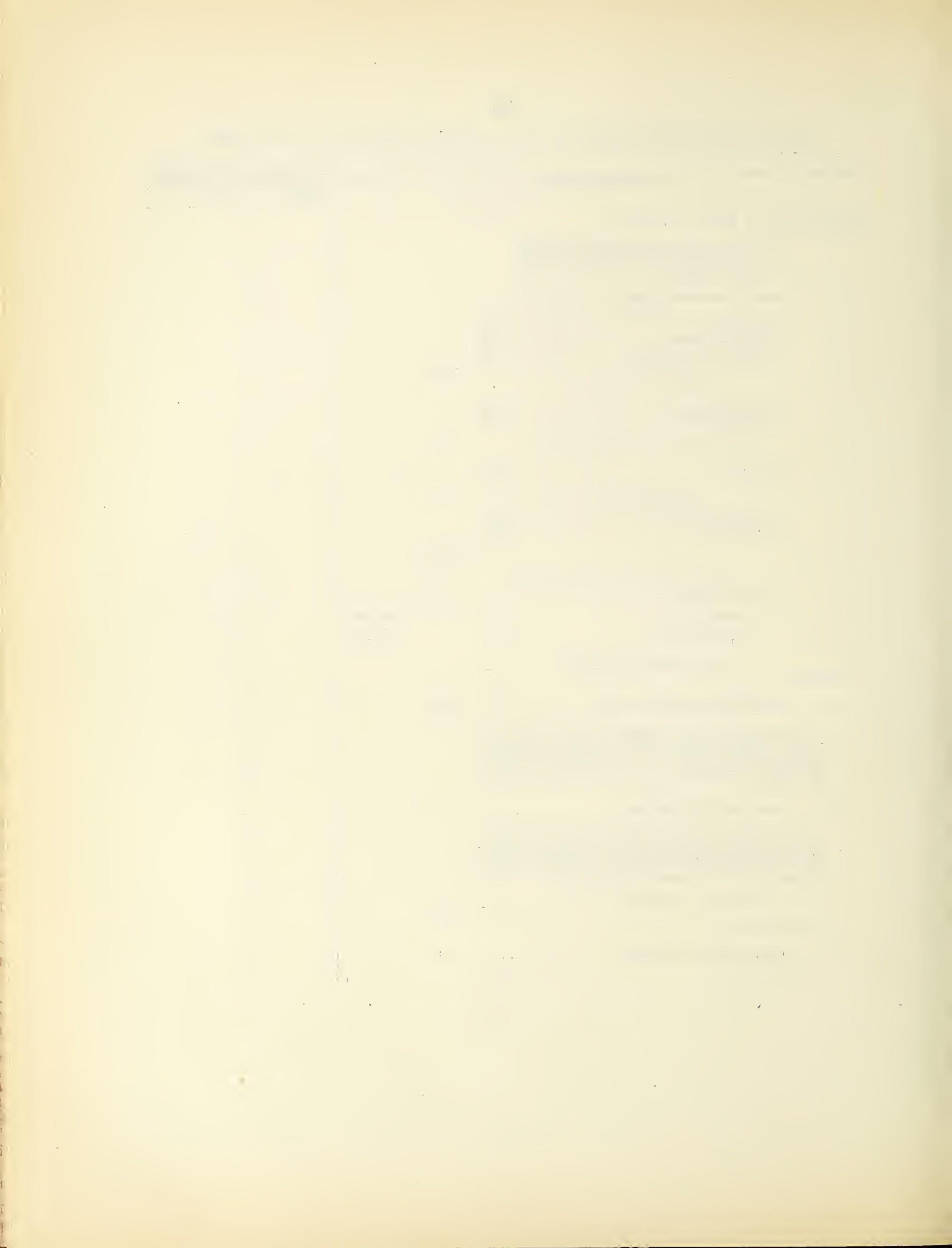
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Markets—Continued.</i>		
<i>Transfers from lump funds of this bureau in the Agricultural act, which funds have been correspondingly reduced—Continued.</i>		
1 draftsman, from marketing and distributing farm products.....	\$1,400	
1 draftsman, from grain standards act.....	1,200	
2 chauffeurs, at \$900 each, from cotton-futures act..	1,800	
1 laborer, from collecting and distributing market information.....	840	
1 laborer, from cotton futures act.....	720	
2 messenger boys, at \$540 each, from market inspection of perishable foods, and grain standards act..	1,080	
1 laborer, from cotton-futures act.....	600	
1 messenger boy, from grain standards act.....	480	
1 messenger boy, from rural cooperation.....	480	
1 charwoman, from cotton-futures act.....	480	
4 charwomen, at \$300 each, from rural cooperation, grain standardization, cotton-futures act, and grain standards act.....	1,200	
1 charwoman, from warehouse act.....	240	
	\$115,560	
<i>Transfers from emergency fund of this bureau for stimulating agriculture (market distribution and food survey work), which fund has been correspondingly reduced.</i>		
<b>MARKET NEWS SERVICE ON FRUITS AND VEGETABLES.</b>		
2 clerks, class 2.....	2,800	
15 clerks, class 1.....	18,000	
10 clerks, at \$1,100 each.....	11,000	
7 clerks, at \$1,080 each.....	7,560	
7 clerks, at \$1,000 each.....	7,000	
30 telegraph operators, at \$1,400 each.....	42,000	
1 telegraph operator.....	1,320	
1 telegraph operator.....	1,300	
7 telegraph operators, at \$1,200 each.....	8,400	
2 multigraph operators, at \$1,200 each.....	2,400	
1 machine operator (mimeograph operator).....	1,200	
1 machine operator (multigraph operator).....	1,100	
1 chauffeur.....	900	
2 laborers, at \$720 each.....	1,440	
1 laborer.....	600	
3 messenger boys, at \$540 each.....	1,620	
	\$108,640	
<b>MARKET NEWS SERVICE ON LIVE STOCK AND MEATS.</b>		
1 clerk, class 3.....	1,600	
1 clerk, class 2.....	1,400	
1 clerk.....	1,320	
11 clerks, class 1.....	13,200	
11 clerks, at \$1,100 each.....	12,100	
5 clerks, at \$1,000 each.....	5,000	
16 telegraph operators, at \$1,400 each.....	22,400	
3 telegraph operators, at \$1,200 each.....	3,600	
1 telephone operator.....	900	
1 telephone operator.....	840	
1 machine operator (multigraph operator).....	1,100	
1 laborer.....	840	
1 messenger.....	720	
1 laborer.....	600	
1 messenger boy.....	540	
	66,160	
<b>MARKET NEWS SERVICE ON DAIRY AND POULTRY PRODUCTS.</b>		
7 clerks, class 1.....	8,400	
8 clerks, at \$1,100 each.....	8,800	
4 clerks, at \$1,000 each.....	4,000	
3 telegraph operators, at \$1,400 each.....	4,200	
1 telegraph operator.....	1,200	
1 machine operator (mimeograph operator).....	1,200	
1 machine operator (graphotype operator).....	1,000	
1 laborer.....	600	
	29,400	



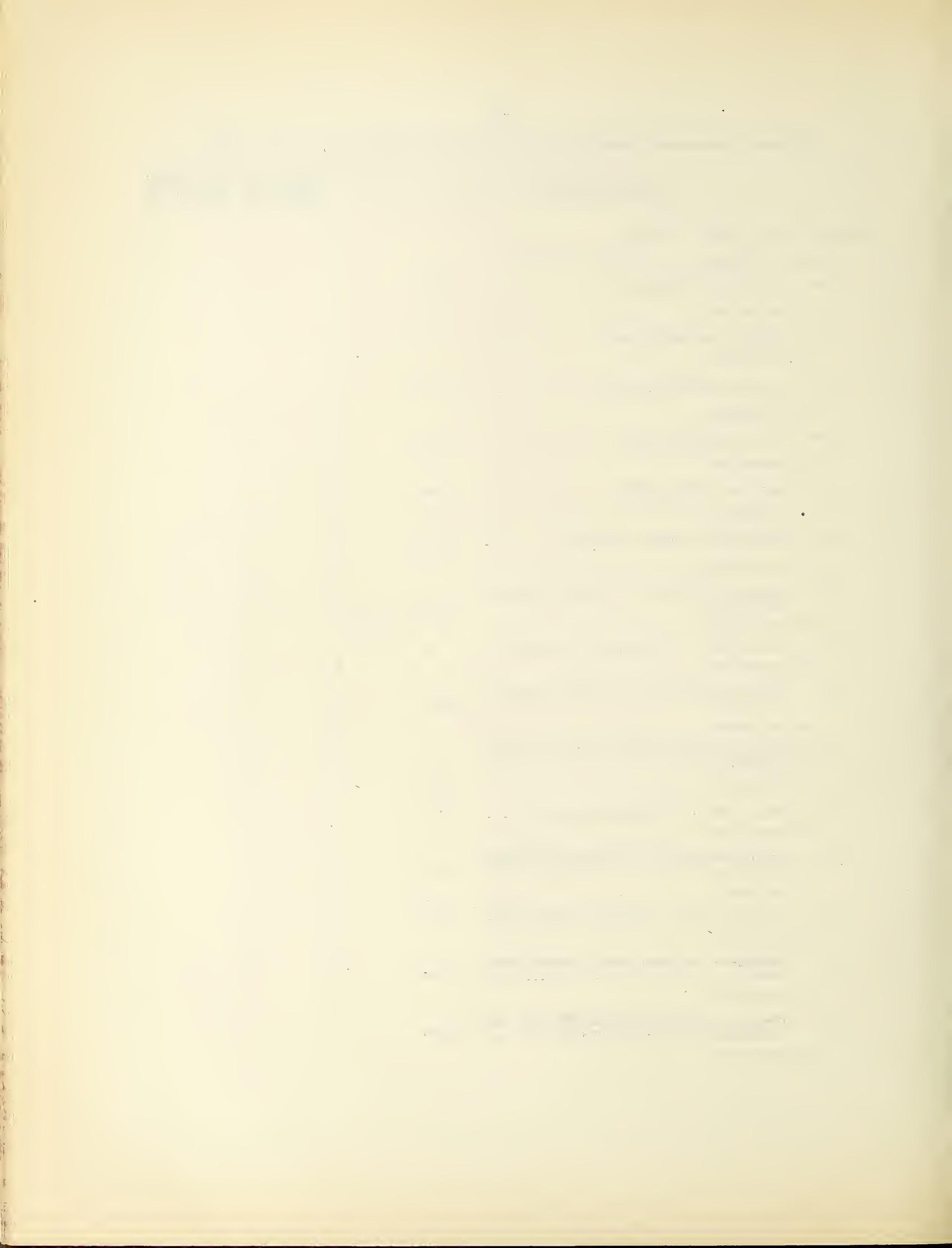
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Markets—Continued.</i>		
<i>Transfers from emergency fund of this bureau for stimulating agriculture (market distribution and food survey work), which fund has been correspondingly reduced—Continued.</i>		
MARKET NEWS SERVICE ON GRAIN, HAY, AND MILLED FEEDS.		
5 clerks, class 1..... \$6,000		
1 clerk..... 1,100		
2 clerks, at \$1,080 each..... 2,160		
1 laborer..... 720		
3 messenger boys, at \$540 each..... 1,620		
	\$11,600	
SEED REPORTING SERVICE.		
5 clerks, class 1..... 6,000		
5 clerks, at \$1,100 each..... 5,500		
1 messenger boy..... 540		
	12,040	
MARKET INSPECTION OF PERISHABLE FOODS.		
1 clerk, class 1..... 1,200		
1 clerk..... 1,100		
	2,300	
CITY MARKET SERVICE.		
1 clerk..... 1,320		
3 clerks, class 1..... 3,600		
2 clerks, at \$1,100 each..... 2,200		
	7,120	
	237,260	
<i>Transfers to statutory roll, Secretary's Office.</i>		
1 mechanical assistant..... 1,380		
Actual increase.....	\$235,880	
Apparent increase.....	351,440	
SUPPLEMENTAL ESTIMATE.		
<i>Promotions:</i>		
(76) 1 chief of bureau, \$4,500 to \$5,000 .....	\$500	
(The present chief of bureau has personally directed the work of the Bureau of Markets in all phases of its development. With its rapid growth, his duties and responsibilities have increased accordingly. The promotion recommended will provide a salary that will compare more favorably with that paid to other chiefs of bureaus with like responsibilities.)		
(77) 2 clerks, \$960 to \$1,000 each .....	80	
(These promotions and those which follow are recommended in order that the salaries of the respective positions may conform to the minimum salary recommended for such positions, as set forth in the general note regarding minimum salaries. To accomplish this result a number of changes in title will be necessary and are indicated.)		
(78) 24 clerks, \$900 to \$1,000 each .....	2,400	
(See preceding note.)		
(79) 3 clerks, \$840 to \$1,000 each .....	480	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Markets—Continued.</i>		
<i>Promotions—Continued.</i>		
(80) 2 clerks, \$720 to \$1,000 each . . . . .	\$560	
(See preceding note.)		
(81) 1 laboratory aid, \$840 to \$900 . . . . .	60	
(See preceding note.)		
(82) 1 laboratory aid, \$720 to \$900 . . . . .	180	
(See preceding note.)		
(83) 1 map tracer, \$720 to \$900 . . . . .	180	
(See preceding note.)		
(84) 1 map tracer, \$600 to \$900 . . . . .	300	
(See preceding note.)		
(85) 2 skilled laborers, \$900 to \$1,000 each . . . . .	200	
(See preceding note.)		
(86) 2 laborers, at \$840 each, to 2 skilled laborers, at \$1,000 each . . . . .	320	
(See preceding note.)		
(87) 1 laborer, \$840, to 1 messenger or laborer, \$900 . . . . .	60	
(See preceding note.)		
(88) 2 laborers, at \$720 each, to 2 skilled laborers, at \$1,000 each . . . . .	560	
(See preceding note.)		
(89) 4 laborers, at \$720 each, to 4 messengers or laborers, at \$900 each . . . . .	720	
(See preceding note.)		
(90) 1 laborer, \$660, to 1 skilled laborer, \$1,000 . . . . .	340	
(See preceding note.)		
(91) 3 laborers, at \$660 each, to 3 messengers or laborers, at \$900 each . . . . .	720	
(See preceding note.)		
(92) 1 messenger, \$720, to 1 messenger or laborer, \$900 . . . . .	180	
(See preceding note.)		
(93) 1 messenger boy or laborer, \$600, to 1 skilled laborer, \$1,000 . . . . .	400	
(See preceding note.)		
(94) 5 messenger boys or laborers, at \$600 each, to 5 messengers or laborers, at \$900 each . . . . .	1,500	
(See preceding note.)		



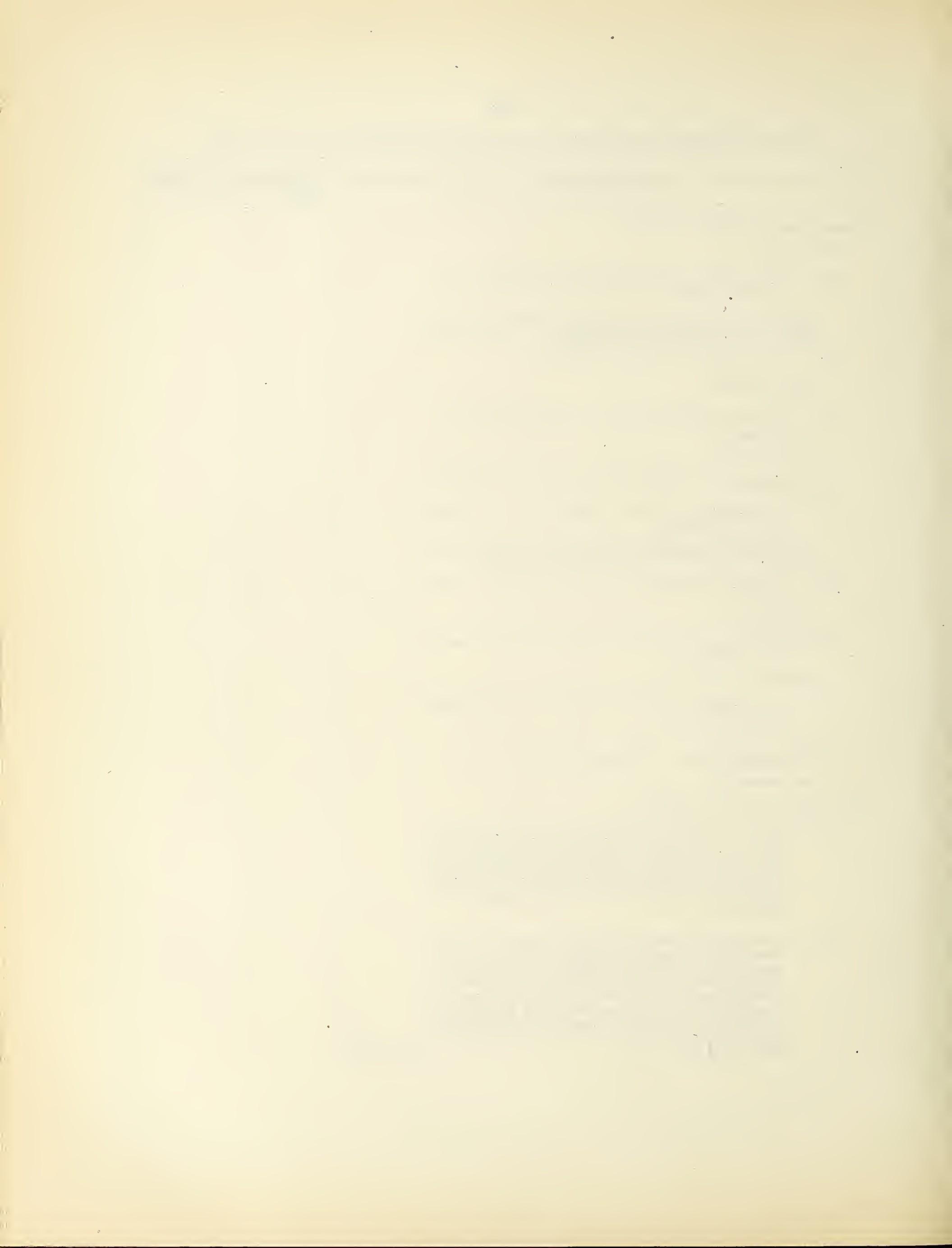
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Markets—Continued.</i>		
<i>Promotions—Continued.</i>		
(95) 2 messenger boys or laborers, at \$540 each, to 2 messengers or laborers, at \$900 each .....	\$720	
(See preceding note.)		
(96) 3 messenger boys, \$420 to \$480 each .....	180	
(See preceding note.)		
(97) 1 messenger boy, \$360 to \$480 .....	120	
(See preceding note.)		
(98) 1 messenger boy, \$300 to \$480 .....	180	
(See preceding note.)		
<i>New places:</i>		
(99) 8 clerks, class 2 .....	11,200	
(These new places are urgently needed in order to provide head clerks at field offices of the bureau. If allowed, the positions will be filled by original appointments.)		
(100) 4 telegraph operators, at \$1,600 each .....	6,400	\$28,540
(These positions are submitted in lieu of 6 telegraph operators, at \$1,080 each, and 1 telegraph operator, \$1,020, recommended dropped, as below. The 6 positions which it is proposed to drop are now vacant, as competent operators can not be secured at these salaries. This change will effect a net decrease of 3 in the number of places and a saving of \$1,100 in statutory salaries.)		
<i>Places dropped:</i>		
(101) 6 telegraph operators, at \$1,080 each .....	6,480	
(See preceding note.)		
(102) 1 telegraph operator .....	1,020	
(See preceding note.)		
(103) 6 laboratory aids, at \$720 each .....	4,320	
(These places and those which follow are vacant, as it has been found impossible to secure competent help at the salaries indicated. It is therefore recommended that they be dropped.)		
(104) 1 telephone operator .....	600	
(See preceding note.)		
(105) 1 map tracer .....	480	
(See preceding note.)		
(106) 11 messenger boys, at \$420 each .....	4,620	
(See preceding note.)		
(107) 1 messenger boy .....	360	17,880
(See preceding note.)		
Net increase .....		10,660



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Bureau of Markets—Continued.</i>		
<i>Changes in title:</i>		
(108) 1 clerk in charge of supplies and accounts, \$2,250, to 1 executive clerk, \$2,250.  (The change in this position and in the 3 positions immediately following is desirable in order to secure uniformity in titles and afford a more effective use of the positions in case of changes in the present personnel.)		
(109) 1 clerk, \$2,000, to 1 executive clerk, \$2,000.  (See preceding note.)		
(110) 1 executive assistant, \$1,980, to 1 executive clerk, \$1,980.  (See preceding note.)		
(111) 1 administrative assistant, \$1,980, to 1 executive clerk, \$1,980.  (See preceding note.)		
(112) 5 messenger boys or laborers, at \$600 each, to 5 messenger boys, at \$600 each.  (These changes and those which follow are recommended in order that the titles of the positions may clearly indicate the character of work performed.)		
(113) 10 messengers, at \$540 each, to 10 messenger boys, at \$540 each.  (See preceding note.)		
(114) 5 messenger boys or laborers, at \$540 each, to 5 messenger boys, at \$540 each.  (See preceding note.)		
(115) 21 messenger boys or laborers, at \$480 each, to 21 messenger boys, at \$480 each.  (See preceding note.)		
(116) 1 messenger, \$480, to 1 messenger boy, \$480.  (See preceding note.)		
<i>General Expenses, Bureau of Markets—</i>		
(117) For salaries and the employment of labor in the city of Washington and elsewhere, furniture, supplies, traveling expenses, rent outside of the District of Columbia, and all other expenses necessary in conducting investigations, experiments, and demonstrations, as follows ( <i>acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, pp. 1002, 1003, sec. 1</i> ):		
(118) For acquiring and diffusing among the people of the United States useful information on subjects connected with the marketing and distributing of farm and nonmanufactured food products and the purchasing of farm supplies, independently and in cooperation with other branches of the department, State agencies, purchasing and consuming organizations, and persons engaged in the transportation, marketing, and distributing of farm and food products [\$292,240] (same acts) ----- \$317,520.00		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Markets—Continued.*

NOTE.—There is an apparent increase in this item of \$25,280, but taking into consideration transfers to the statutory roll of this bureau amounting to \$13,700 and the transfer of 1 clerk of class 2 and 1 watchman, at \$720 to the statutory roll of the Secretary's office, the actual increase is \$41,100. Of this amount \$27,000 is being transferred from the item "Special marketing activities" under the food production act, leaving an actual increase of \$14,100 for the work already under way under the regular appropriation for "Marketing and distributing farm products."

This increase is requested to enable the Department to be of greater assistance to the farmers of the country during the period of readjustment following the war. It is proposed to use the additional \$41,100 as follows:

(a) \$15,000 for cooperative purchasing and marketing. From the sum appropriated for "Special marketing activities" under the food production act an allotment of approximately \$32,000 was made for emergency work in cooperative purchasing and marketing. Of this sum it is planned to transfer \$15,000 to regular funds in order to provide for this work on a permanent basis. If only the present regular appropriations are available for this work next year it will be impossible to conduct work in an effective and adequate way.

Under war conditions the production of many agricultural commodities has been tremendously increased, and upon return to normal conditions it will be necessary to conduct all marketing operations with the utmost efficiency if disorder is to be avoided. If producers are assisted to organize along sound economic lines they will be in a much better position to overcome the difficulties than if left to do so by their unaided individual efforts. Diversification of production is now being practiced to an increasing extent by farmers in the South in response to urgent appeals from all interested in the betterment of agricultural conditions. This has greatly increased the need for cooperative organization there.

(b) \$12,000 for foreign marketing investigations. The available funds under regular appropriations are totally inadequate for continuing this work in a proper way. During the current fiscal year it is being supported by an allotment of \$26,000 from the emergency item "Special marketing activities." It is proposed to transfer \$12,000 of this amount to the regular bill in order to place the work on a satisfactory permanent basis. The Department of Agriculture should be in a position to render effective aid to producers and shippers of farm products in the solution of their foreign marketing problems. It is understood that the Bureau of Foreign and Domestic Commerce of the Department of Commerce plans no work along agricultural market lines. On the other hand, the Department of Commerce has perfected plans for an extensive expansion of its work on manufactured lines, in order that it may be prepared to assist the manufacturers of the country during the post-war period. In the interest of the agricultural industries, therefore, it is believed to be very important to maintain in Europe during the readjustment period the two or more special investigators whom it is planned to place there during the present year.

(c) \$14,100 for cotton handling and marketing. Cotton grading work is now in progress in North and South Carolina, Arkansas, and Texas. It is very desirable that this work be extended to other States, in order to demonstrate to farmers the value and necessity of a thorough knowledge of their cotton grades before offering the product for sale. The department's work has already increased the incentive on the part of growers to produce better grades and longer staple. It has been shown that a proper knowledge of grades has resulted in gains to the producer of from \$1 to \$1.50 per bale. Fluctuations in price at primary market points have increased greatly under existing conditions, and the producers should be put into the possession of such knowledge as will enable them properly to dispose of their crops. Cotton is the great staple crop upon which the economic structure of the entire South largely rests, and it necessarily follows that the use of better methods of marketing that commodity is a matter of direct importance to the whole Nation.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.			
<i>General Expenses, Bureau of Markets—Continued.</i>					
	Employees.	Rate.	Estimated, 1920.	Expended. 1918.	Number.
Specialist.....per annum..	\$3,750.00		1(part time)		..
Specialist.....do.....	3,600.00		1		..
Specialist.....do.....	3,500.00		1(part time)	1	
Specialist.....do.....	3,420.00		1		
Specialist.....do.....	3,300.00		..	2(part time)	
Specialist.....do.....	3,240.00		1	2(1 pt. time)	
Specialist.....do.....	3,000.00		4(part time)	1	
Specialist.....do.....	2,640.00		..	1	
Specialist.....do.....	2,580.00		1		
Specialist.....do.....	2,400.00		1(part time)	1	
Specialist.....do.....	2,100.00		1	1	
Specialist.....do.....	2,040.00		1		
Investigator.....do.....	2,760.00		..	1(part time)	
Investigator.....do.....	2,750.00		1		
Investigator.....do.....	2,700.00		..	1	
Investigator.....do.....	2,640.00		1	1	
Investigator.....do.....	2,580.00		..	1	
Investigator.....do.....	2,520.00		1	2 (1 temp.)	
Investigator.....do.....	2,500.00		..	3	
Investigators.....do.....	2,400.00		4	3 (1 temp.)	
Investigators.....do.....	2,280.00		2	3(1 pt. time)	
Investigators.....do.....	2,200.00		3		
Investigators.....do.....	2,000.00		4	1	
Investigators.....do.....	1,800.00		3	3(part time)	
Investigator.....do.....	1,620.00		..	1	
Investigator.....per month..	250.00		..	1 (temp.)	
Expert.....do.....	250.00		..	1 (temp.)	
Assistant.....per annum..	3,000.00		..	1 (temp.)	
Assistant.....do.....	2,640.00		1	..	
Assistant.....do.....	2,580.00		1		
Assistants.....do.....	2,400.00		5	4(1 temp.; 1 part time)	
Assistants.....do.....	2,280.00		2	4(2 pt. time)	
Assistants.....do.....	2,220.00		1	1(part time)	
Assistant.....do.....	2,200.00		1	1(part time)	
Assistants.....do.....	2,100.00		2 (1 new)	1	
Assistants.....do.....	2,040.00		..	5(1 temp.; 1 part time)	
Assistants.....do.....	2,000.00		5(1 pt. time)	2(part time)	
Assistant.....do.....	1,980.00		1	1(part time)	
Assistants.....do.....	1,860.00		1	2	
Assistants.....do.....	1,800.00		10 (2 new)	7(4 pt. time; 1 temp.)	
Assistants.....do.....	1,680.00		3 (1 new)	2	
Assistants.....do.....	1,620.00		10 (2 new)	10(4 pt. time)	
Assistants.....do.....	1,500.00		7		
Assistants.....do.....	1,440.00		3	1	
Assistants.....do.....	1,400.00		2	7(3 part time; 3 temp.)	
Assistants.....do.....	1,200.00		2	4(1 part time; 2 temp.)	
Market station assistant.....do.....	1,000.00		..	2 (temp.)	
Junior assistant.....do.....	1,500.00		..	1 (temp.)	
Structural engineer.....do.....	2,100.00		..	1 (temp.)	
Pomologist.....do.....	3,240.00		1	1(part time)	
Pomologist.....do.....	3,000.00		1		
Refrigeration technologist.....do.....	2,760.00		1	1(part time)	
Cotton classer's helpers.....do.....	1,200.00		..	1 (temp.)	
Clerk *.....do.....	1,800.00		..	1(part time)	
Clerk (2 †).....do.....	1,400.00		..	5 (3 temp.)	
Clerk *.....do.....	1,300.00		..	1(part time)	
Clerk (7 *) (3 †).....do.....	1,200.00		..	17 (7 temp.; 4 part time.)	
Clerk ‡.....do.....	1,100.00		..	3 (1 part time.)	
Clerk.....do.....	1,080.00		..	1 (temp.)	
Clerk (6 *) (2 †).....do.....	1,000.00		..	15 (7 temp.)	
Telegraph operators †.....do.....	1,400.00		..	3	
Telegraph operator.....do.....	1,200.00		..	1 (temp.)	
Telegraph operator.....do.....	1,080.00		..	1 (temp.)	
Clerks and telephone operators, \$960 per annum to \$3.....per diem.....	..		..	8 (temp.)	
Wages:					
Charwoman †.....per annum..	480.00		..	1	
Charwoman *.....do.....	300.00		..	1(part time)	
Charwomen †.....do.....	240.00		..	2(part time)	
Miscellaneous temporary labor— \$600 and \$300.....do.....	..		..	35(15 temp.; 19 part time.)	
84.50.....per diem.....	..		92	187	1 (temp.)
Salaries.....			\$102,380.00	\$155,901.39	
Wages.....				4,441.00	
Other objects of expenditure:					
Stationery.....			8,480.00	8,243.45	
Traveling expenses.....			61,550.00	37,531.41	
Equipment and material.....			33,520.00	17,896.57	
Telephone and telegraph service.....			5,200.00	2,698.96	
Miscellaneous items.....			6,390.00	1,807.77	
Total.....			317,520.00	228,520.55	

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Markets—Continued.*

- (119) For collecting and distributing, by telegraph, mail, and otherwise, timely information on the supply, commercial movement, disposition, and market prices of fruits and vegetables [§196,660] (acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, pp. 1002, 1003, sec. 1) \$304,660.00

NOTE.—There is an apparent increase in this item of \$108,000, but taking into consideration the transfers to the statutory roll of this bureau amounting to \$135,700 (\$27,060 from the regular and \$108,640 from the emergency item) and the transfer of 1 electrical wireman at \$1,100 to the statutory roll of the Secretary's office, the actual increase is \$244,800. This increase represents the transfer of that amount from the emergency appropriation for a market news service on fruits and vegetables. This transfer is necessary in order to place the project on an adequate permanent basis. Unless it is effected it will, upon the withdrawal of funds now provided under the food production act, be necessary to dismantle certain branch offices or to discontinue a large part of the service now rendered in producing localities. This would necessarily reduce materially the effectiveness of the service as a whole. That the work is greatly appreciated by growers and decidedly useful to them is clearly indicated by the many expressions coming to the department from the sections of the country directly affected.

When the news service on fruits and vegetables was expanded under emergency funds, the work was enlarged in the only possible way. The bureau pushed through in one year arrangements for a service which, under normal conditions, might not have been so expanded for three or four years. Arrangements were made with the carriers, at a cost of much time, labor, and money, for furnishing reports to the bureau, necessary furniture and equipment were bought, quarters were leased, arrangements were made for the leased-wire service, and large numbers of workers were employed and specially trained to perform this work.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Specialist.....per annum.	\$3,300.00	1	1(part time)
Specialist.....do.	3,000.00	1	
Specialist.....do.	2,640.00	..	1
Investigator.....do.	1,900.00	2	..
Investigator.....do.	1,800.00	6	..
Investigator.....do.	1,680.00	1	..
Investigator.....do.	1,620.00	1	1(temp.)
Assistant.....do.	3,000.00	..	1(part time)
Assistant.....do.	2,280.00	1	1(part time)
Assistants.....do.	2,040.00	1	4(3 pt.time)
Assistant.....do.	1,980.00	..	1(part time)
Assistants.....do.	1,860.00	1	3 (1 part time, 1 temp.)
Assistants.....do.	1,800.00	10 (3 new)	4 (2 part time, 2 temp.)
Assistants.....do.	1,680.00	2	2(1 pt.time)
Assistants.....do.	1,620.00	8 (3 new)	2 (1 part time, 1 temp.)
Assistant.....do.	1,560.00	1	..
Assistants.....do.	1,500.00	6	1(part time)
Assistants.....do.	1,440.00	2	3 (2 part time, 1 temp.)
Assistants.....do.	1,400.00	3	1
Assistants.....do.	1,200.00	1	2(part time)
Market station assistant.....do.	1,860.00	1	1
Market station assistant.....do.	1,680.00	1	..
Market station assistants.....do.	1,620.00	5	2
Market station assistant.....do.	1,560.00	1	1(part time)
Market station assistant.....do.	1,500.00	1	..
Market station assistant.....do.	1,440.00	1	..
Market station assistants.....do.	1,400.00	3	9(4 pt.time, 2 temp.)
Market station assistant.....do.	1,200.00	1	3(1 pt.time, 1 temp.)
Market station assistant.....do.	1,000.00	..	3(1 pt.time, 2 temp.)
Field agent.....do.	1,500.00	1	..
Supervisor of telegraphy †.....do.	2,000.00	..	1(part time)
Telegraph operators (1*) (1†).....do.	1,320.00	..	2(part time)
Telegraph operators (2*).....do.	1,200.00	..	4(2 pt.time, 2 temp.)

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Markets—Continued.**Market news service on fruits and vegetables—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries—Continued.		Number.	Number.
Telegraph operator *.....per annum..	\$1,080.00	..	1(part time)
Clerk †.....do.....	1,800.00	..	1(part time)
Clerk *.....do.....	1,400.00	..	1(part time)
Clerks (2*) (1†).....do.....	1,200.00	..	6(2 pt. time; 3 temp.)
Clerks (1†) (1*).....do.....	1,100.00	..	2(part time)
Clerks (6*) (2†).....do.....	1,000.00	..	11(1 pt. time, 3 temp.)
Clerks *.....do.....	960.00	..	1(part time)
Clerks (2†) (2*).....do.....	900.00	..	5(1 temp.)
Clerks and messengers, \$900 to \$360.....do.....		10 (temp.)	62 (temp.)
Wages:			
Electrician.....do.....	1,100.00	..	1(part time)
Machine operators and laborers— \$800 to \$300.....do.....		..	11 (temp.)
		72	156
Salaries.....		\$108,710.00	\$81,042.59
Wages.....		860.00	825.00
Other objects of expenditure:			
Stationery.....		50,000.00	16,075.84
Traveling expenses.....		20,500.00	12,770.12
Equipment and material.....		16,000.00	12,707.98
Telegraph and telephone service.....		77,000.00	23,040.06
Miscellaneous items.....		a 31,530.00	6,204.90
Total.....		304,660.00	152,666.49

<sup>a</sup> Includes \$27,500 for rent.

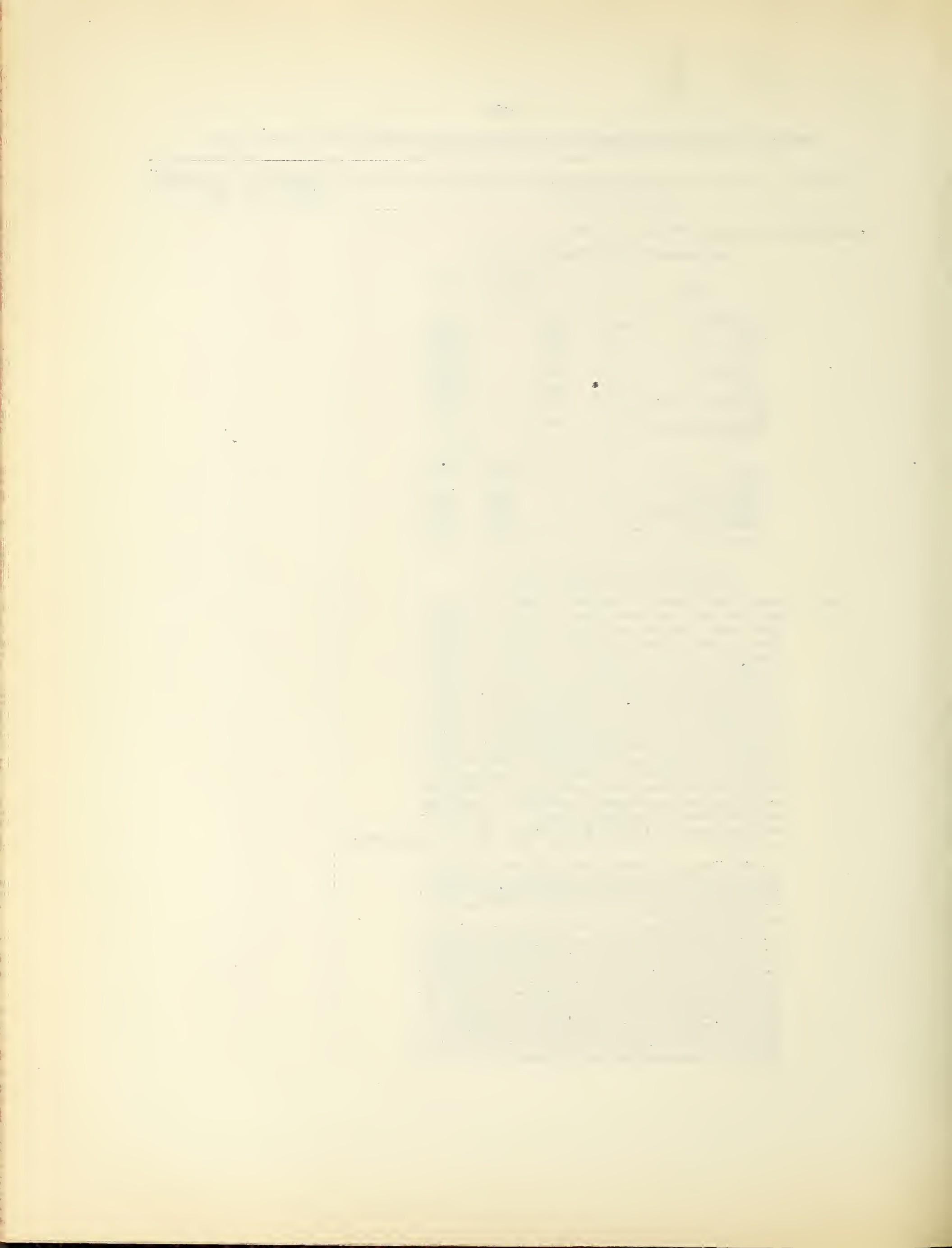
\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.

- (120) To enable the Secretary of Agriculture to gather from stockmen, live-stock associations, State live-stock and agricultural boards, common carriers, stock yards, commission firms, live-stock exchanges, slaughtering and meat-packing companies, and others information relative to the number of different classes and grades of marketable live stock, especially cattle, hogs, and sheep in the principal live-stock feeding districts and growing sections; prices, receipts, and shipments of the different classes and grades of cattle, hogs, and sheep at live-stock market centers; prices of meats and meat food products and the amounts of such products in storage; to compile and publish such information at such frequent intervals as most effectively to guide producers, consumers, and distributors in the sale and purchase of live stock, meats, and other animal products; and to gather and publish any related information pertaining to marketing and distribution of live stock, meats, and animal by-products, the sum of [§57,920] (acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, pp. 1002, 1003, sec. 1) \$152,720.00

NOTE.—There is an apparent increase in this item of \$94,800, but taking into consideration the transfers to the statutory roll amounting to \$75,200 (\$9,040 from the regular item and \$66,160 from the emergency item), the actual increase in this appropriation is \$170,000, this amount being transferred from the emergency appropriation "Market news service on live stock and meats."

As in the case of the market news service on fruits and vegetables, this service was expanded within a year to a point which ordinarily would not have been reached in two or three years. A number of persons have been employed and trained especially for this work, important arrangements involving much time, travel, and labor were perfected with the railroads for furnishing the reports, new quarters were leased, and new equipment bought. A temporary interruption of the service on account of discontinuance of emergency funds would result in large financial loss to the Government and would react in a very unfavorable way on the live-stock industry. The funds now carried in the regular appropriation are not sufficient to maintain even the six original offices, established before emergency funds were available, if the reports which are now being released are to be continued and are to be transmitted over the leased wires.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Markets—Continued.*

The various live-stock exchanges and boards of trade at market centers, the commercial telegraph companies, press associations, and other news distributing agencies and papers throughout the country have come to depend so largely upon these reports that their discontinuance would very materially cripple this service. The daily newspapers in most large cities now publish daily Chicago live-stock market quotations under a Bureau of Markets heading, and the official aspect thus given to the reports is exerting a powerful influence in the development of confidence in market conditions, which heretofore has been seriously lacking among live-stock producers.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:			
Specialist.....per annum.....	\$3,600.00	1(part time)	
Assistants.....do.....	2,400.00	2	2(1 pt. time)
Assistants.....do.....	2,200.00	2	
Assistants.....do.....	2,040.00	3	2
Assistants.....do.....	2,000.00	3	
Assistant.....do.....	1,900.00	1	
Assistants.....do.....	1,800.00	3	3 (1 pt. time)
Assistant.....do.....	1,680.00	1	
Assistants.....do.....	1,620.00	2	1
Assistant.....do.....	1,600.00	1	
Assistant.....do.....	1,500.00	1	
Assistants.....do.....	1,440.00	2	2(1 pt. time)
Assistants.....do.....	1,200.00	2	1(part time)
Assistant.....do.....	1,100.00	1	
Market station assistant.....do.....	1,400.00	1	1(part time).
Market station assistant.....do.....	1,440.00	1	
Market station assistant.....do.....	1,260.00	1	
Clerk *.....do.....	2,000.00	1	
Clerks (2 †) (1 *).do.....	1,200.00	4 (temp.) (new)	8 (3 temp.: 2 part time)
Clerks.....do.....	1,100.00	6 (temp.) (new)	..
Clerks (1 †) (1 *).do.....	1,000.00	..	3 (1 temp.)
Telegraph operators *.do.....	1,400.00	2 (temp.) (new)	1
Telegraph operators.....do.....	1,080.00	2 (temp.) (new)	2 (temp.)
Telegraph operators.....do.....	1,020.00	..	1 (temp.)
Clerks, agent, messengers, and collaborators, \$720 to \$300.....do.....	..	..	5 (temp.)
		42	34
Salaries.....		\$57,100.00	\$28,400.87
Other objects of expenditure:			
Stationery.....	20,700.00	7,524.15	
Traveling expenses.....	6,000.00	3,416.19	
Equipment and material.....	6,500.00	967.71	
Telephone and telegraph service.....	49,000.00	6,201.92	
Miscellaneous items.....	a 22,420.00	2,195.75	
Total.....	152,720.00	48,706.59	

\* Recommended for transfer to statutory roll in estimates for 1920.

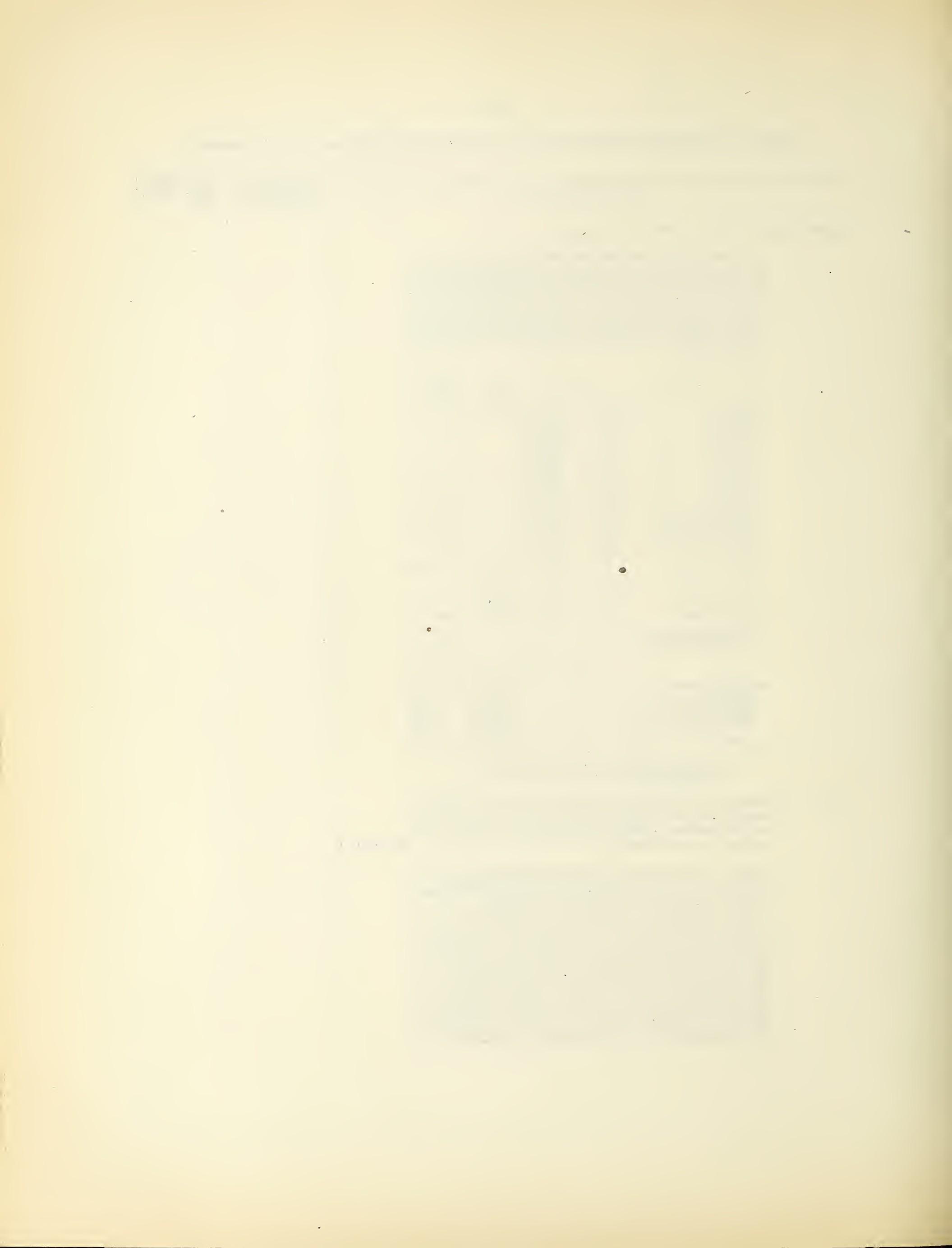
† Transferred to statutory roll in Agricultural act for 1919.

a Includes \$20,000 for rent.

- (121) *For collecting and distributing, by telegraph, mail, and otherwise, timely information on the supply, demand, commercial movement, disposition, quality, and market prices of dairy and poultry products (submitted) \$80,600.00*

NOTE.—This is a new item in the regular bill and represents a transfer of similar work now conducted under the emergency item "Market news service on butter, cheese, eggs, and poultry." Including \$29,400 transferred to the statutory roll, the actual total is \$110,000.

This service has been received with great enthusiasm by dairy producers and the trade, as this field was very poorly supplied with accurate and dependable market information before it was instituted under the emergency appropriation. Hundreds of letters of appreciation have been received from manufacturers, commission men, and producers, and even a temporary discontinuance of the work would have serious effects in taking from the industries affected market information at the very time when it will be most needed. For the purpose of issuing these reports it has been necessary to establish a certain number of branch offices, which would have to be dismantled if the work were stopped before other appropriations could be made available. Contracts have been made with the trade for obtaining reports at a cost of much time and labor, and workers have been specially trained to undertake this service.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Markets—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:		Number.	Number.
Specialist.....per annum.....	\$3,000.00	1 (pt. time)	..
Investigator.....do.....	2,700.00	1	..
Assistant.....do.....	2,400.00	1	..
Assistants.....do.....	2,040.00	2 (1 new)	..
Assistants.....do.....	2,000.00	1	..
Assistants.....do.....	1,800.00	4 (2 new)	..
Assistant.....do.....	1,600.00	1	..
Assistant.....do.....	1,500.00	2	..
Assistant.....do.....	1,200.00	1	..
Clerks.....do.....	1,200.00	4 (temp.; new)	..
Clerks.....do.....	1,100.00	5 (temp.; new)	..
		23	..
Salaries.....	\$31,380.00		
Other objects of expenditure:			
Stationery.....	20,600.00		
Traveling expenses.....	5,000.00		
Equipment and material.....	9,000.00		
Telephone and telegraph service.....	8,500.00		
Miscellaneous items.....	<sup>a</sup> 6,120.00		
Total.....	80,600.00		

\* No appropriation for fiscal year 1918.

<sup>a</sup> Includes \$3,000 for rent.

- (122) *For collecting and distributing, by telegraph, mail, and otherwise, timely information on the supply, demand, commercial movement, location, disposition, quality, and market prices of grain, hay, and feeds (submitted) ----- \$41,560.00*

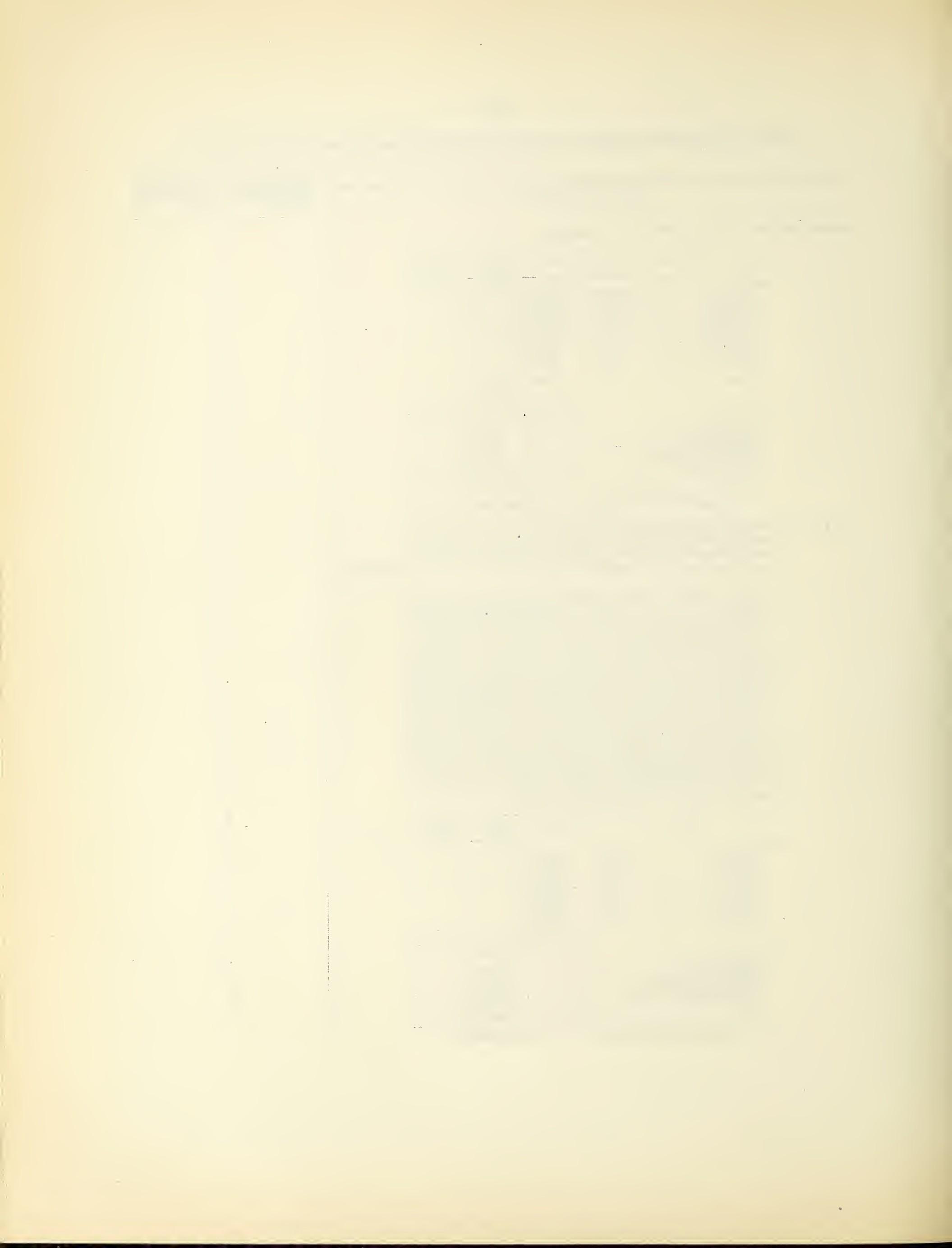
NOTE.—This is a new item in the regular bill and represents a transfer of similar work now conducted under the \$150,000 emergency item "Market news service on grain, hay, feeds, and seeds." Including \$11,600 transferred to the statutory roll, the actual total is \$53,160.

It is believed that the transfer of funds requested should be effected in order that the Department may be able to continue to furnish reliable market information to producers of grain, hay, and feeds. Exceedingly useful work in several emergencies has been conducted in connection with this news service during the past winter, particularly in connection with the soft-corn and Texas drought situations. Representatives of the bureau are now assisting to locate and distribute hay, grain, and feed for the farmers and cattlemen in the drought-stricken areas. Basic questions involved in hay marketing should receive careful consideration. The crop is probably the third in value in the country, and its handling has resulted in many abuses, particularly in methods of weighing and grading and in its sale at country and terminal markets. The need for accurate market information along these lines is greater now than ever, but the work will have to be greatly curtailed, if not entirely suspended, upon the withdrawal of emergency funds, unless provision is made for its support in the regular appropriation bill.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:		Number.	Number.
Investigator.....per annum.....	\$2,400.00	1	..
Investigators.....do.....	1,800.00	1	..
Assistants.....do.....	2,400.00	1	..
Assistant.....do.....	2,100.00	1	..
Assistants.....do.....	1,800.00	1	..
Assistant.....do.....	1,600.00	1	..
Assistants.....do.....	1,500.00	2	..
Assistant.....do.....	1,440.00	1	..
Assistants.....do.....	1,200.00	1	..
		10	..
Salaries.....	\$17,140.00		
Other objects of expenditure:			
Stationery.....	4,000.00		
Traveling expenses.....	2,720.00		
Equipment and material.....	2,000.00		
Telephone and telegraph service.....	10,560.00		
Miscellaneous items.....	<sup>a</sup> 5,140.00		
Total.....	41,560.00		

\* No appropriation for fiscal year 1918.

<sup>a</sup> Includes \$4,000 for rent.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Markets—Continued.*

- (123) *For collecting and distributing timely information regarding the supply, demand, commercial movement, disposition, quality, location, and market prices of seeds (submitted) . . . . . \$34,960.00*

NOTE.—This is a new item in the regular bill and represents a transfer of similar work now conducted under the emergency item "Market news service on grain, hay, feeds, and seeds." Including \$12,040 covering places transferred to the statutory roll, the actual total is \$47,000.

Those engaged in the seed business of the country have, during the short time in which seed reporting service has been in operation, come to depend upon it for necessary information regarding prices, acreage to devote to seed production, and other important matters. For some time before the war began it was apparent that it would be extremely desirable to have reliable and disinterested seed-crop and market information available for general use. The little information then available could not always be depended upon. The National Agricultural Advisory Committee of the Department of Agriculture and the Food Administration has adopted resolutions endorsing the seed reporting and other market news services, recommending that they be made a permanent feature of the work of the department, and many representatives of the seed-trade and other interested agencies have expressed their appreciation of the value of this service and their desire for its continuation.

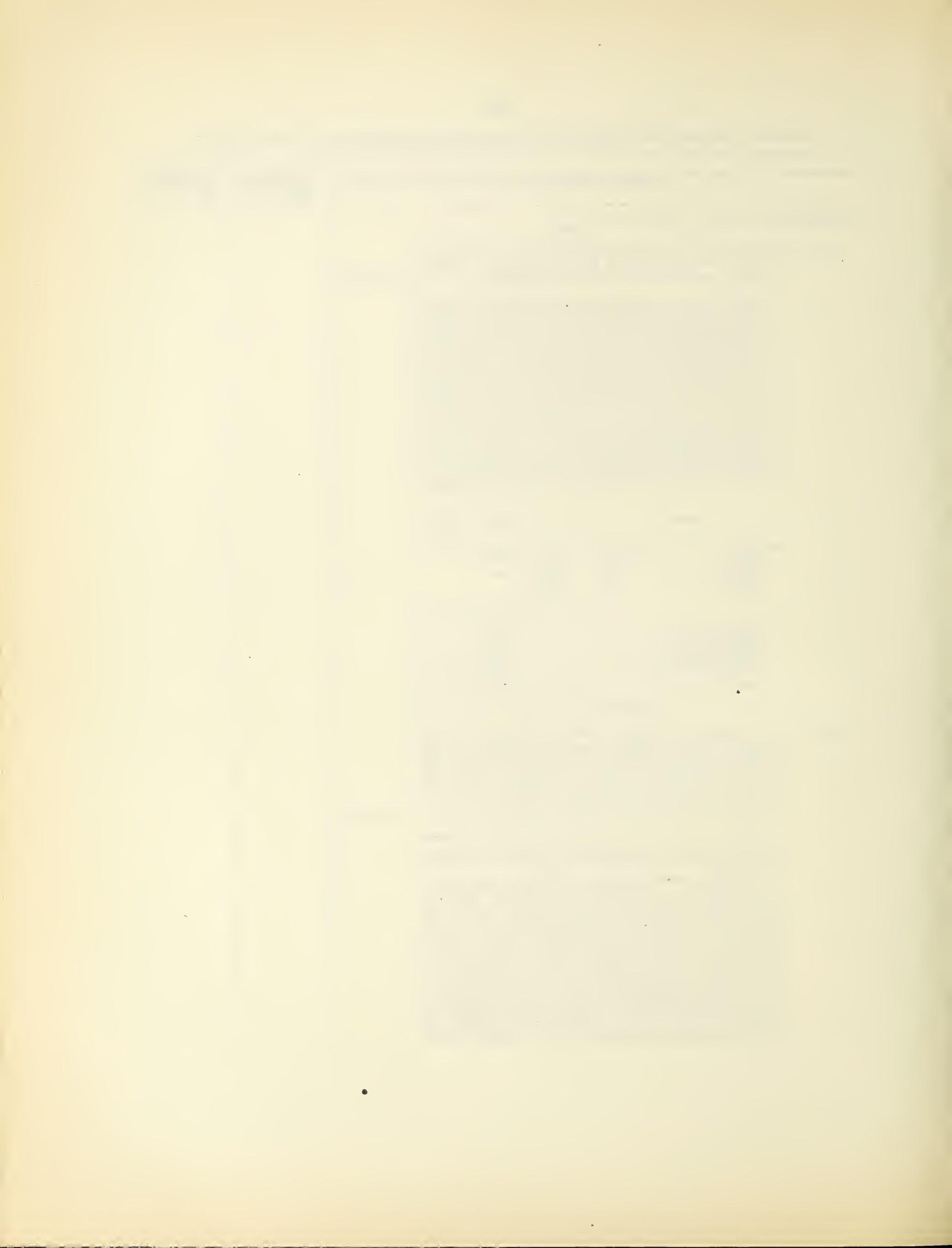
Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:			
Specialist.....	per annum ..	\$3,500.00	Number. 1 (part time) ..
Investigator.....	do.....	2,520.00	1 ..
Assistant.....	do.....	2,400.00	1 (new) ..
Assistants.....	do.....	1,800.00	6 ..
Assistant.....	do.....	1,500.00	1 ..
		10	..
Salaries.....		\$18,920.00	.....
Other objects of expenditure:			
Stationery.....		5,000.00	.....
Traveling expenses.....		5,200.00	.....
Equipment and material.....		2,080.00	.....
Telephone and telegraph service.....		2,000.00	.....
Miscellaneous items.....		1,760.00	.....
Total.....		34,960.00	.....

\* No appropriation for fiscal year 1918.

- (124) *For furnishing to producers, dealers, newspapers, and consumers accurate information regarding supplies of fruits, vegetables, dairy and poultry products, meats, fish, and other food products received on farmers', municipal, and other city markets, and prices for which such products are sold; and information regarding such products when in abundance or oversupply, and other related matters (submitted) . . . . . 42,880.00*

NOTE.—This is a new item in the regular bill and represents a transfer of similar work now conducted under the emergency item "City market service." Including \$7,120 transferred to the statutory roll, the actual total is \$50,000.

It is planned to establish a permanent local market reporting service in New York, Chicago, Philadelphia, Boston, Detroit, Cleveland, St. Louis, Washington, Richmond, New Orleans, Pittsburgh, Kansas City, St. Paul, Denver, San Francisco, Seattle, Rochester, Cincinnati, and Baltimore, the work having already been inaugurated at a number of these places. This service covers an entirely new field, and if it were discontinued a large number of local truck growers, consumers, and fruit and produce tradesmen in cities would be left without information which has proved to be very valuable to them. So far as known, no agencies, unless it be certain individual commission merchants, have ever attempted to furnish local truck growers with reliable market reports dealing primarily with "home-grown" fruits and vegetables. So far as accurate and intelligible market information to consumers is concerned, the work of the bureau during the past year marks the first comprehensive effort of this nature. The little work of this kind that has been done heretofore has been, as a whole, very unreliable, and the



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Markets—Continued.*

newspapers, in most cases, welcome the reports issued by this bureau because of their accuracy and the special appeal that they make to the public.

The local market reporting service has proved to be a logical and necessary supplement to the national telegraphic market news service. The latter serves mainly car-lot shippers living at a distance from their markets and the dealers who are concerned with this class of shipments. The former serves thousands of local truck growers and farmers who haul their products into cities to sell either on the public farmers' markets or through wholesale or retail dealers. Aside from its value in supplying dependable market information, it has proved a very effective agency in moving oversupplies of fruits and vegetables in cities, both locally-grown and shipped-in. In fact, the general principles upon which it operates—publicity to consumers, growers, and dealers—is the only successful method which the bureau has been able to devise to handle a market glut effectively.

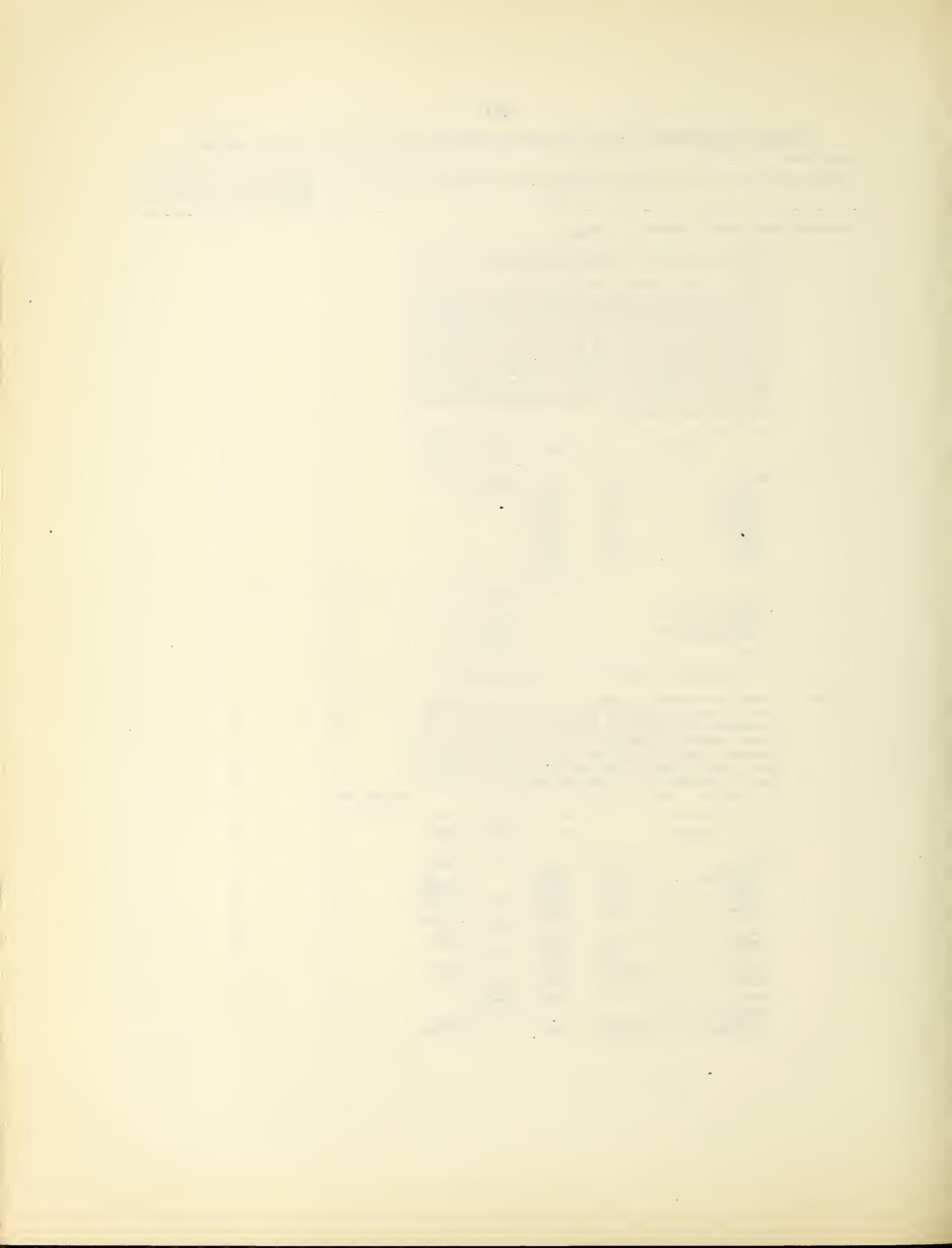
Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:		<i>Number.</i>	<i>Number.</i>
Specialist.....per annum.....	\$2,400.00	1 (part time)	..
Investigator.....do.....	2,400.00	1	..
Assistant.....do.....	2,000.00	1 (part time)	..
Assistant.....do.....	1,620.00	1	..
Assistants.....do.....	1,600.00	4	..
Assistants.....do.....	1,500.00	3	..
Assistants.....do.....	1,400.00	2	..
Assistant.....do.....	1,200.00	1	..
Agent.....do.....	1,600.00	1	..
Agent.....do.....	1,400.00	1	..
Agents.....do.....	750.00	2	..
		18	..
Salaries.....		\$26,000.00	.....
Other objects of expenditure:			
Stationery.....		5,000.00	.....
Traveling expenses.....		3,000.00	.....
Equipment and material.....		3,400.00	.....
Miscellaneous items.....		a 5,480.00	.....
Total.....		42,880.00	.....

\* No appropriation for fiscal year 1918.

a Includes \$4,000 for rent.

- (125) To make investigation relating to the production, transportation, storage, preparation, marketing, manufacture, and distribution of agricultural food products, including the extent, manner, and methods of any manipulation of the markets or control of the visible supply of such food products or any of them by any individuals, groups, associations, combinations, or corporations (*acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, p. 1003, sec. 1*) ..... \$48,800.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Investigator.....per annum.....	\$2,760.00	1	1 (part time)
Grain supervisor.....do.....	2,760.00	..	1 (part time)
Assistants.....do.....	3,000.00	2	1 (part time)
Assistant.....do.....	2,400.00	..	1 (part time)
Assistant.....do.....	2,040.00	1 (temp.)	1 (part time)
Assistant.....do.....	1,860.00	1	1
Assistants.....do.....	1,800.00	5 (3 new; 1 temp.)	2 (1 pt. time; 1 temp.)
Assistant.....do.....	1,600.00	..	1 (temp.)
Assistant.....do.....	1,500.00	..	1 (temp.)
Assistants.....do.....	1,200.00	3 (temp.; new)	..
Assistant.....per month.....	250.00	..	1 (temp.)
Law clerk.....per annum.....	2,500.00	..	1 (part time)
Clerks.....do.....	1,200.00	4 (temp.; new)	..
Clerks.....do.....	1,100.00	3 (temp.; new)	..
Expert and clerks, \$1,000 per annum to \$3.....per diem.....	480.00	..	42 (temp.)
Charwoman*.....per annum.....			1 (part time)



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Markets—Continued.**Food supply investigations—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Wages: Laborers.....per month..	\$25.00	75	73 (46 temp.; 27 pt. time)
		120	127
Salaries.....		\$28,720.00	\$25,695.77
Wages.....		2,000.00	1,863.00
Other objects of expenditure:			
Stationery.....		500.00	41.66
Traveling expenses.....		14,000.00	18,282.87
Equipment and material.....		1,500.00	1,055.80
Telephone and telegraph service.....		500.00	115.83
Miscellaneous items.....		1,580.00	51.27
Total.....		48,800.00	47,106.20

\* Transferred to statutory roll in Agricultural act for 1919.

- (126) For enabling the Secretary of Agriculture to investigate and certify to shippers and other interested parties the quality and condition of fruits, vegetables, and other perishable farm products when received at such important central markets as the Secretary of Agriculture may from time to time designate, under such rules and regulations as he may prescribe, including payment of such fees as will be reasonable and as nearly as may be to cover the cost for the service rendered: *Provided*, That certificates issued by the authorized agents of the department shall be received in all courts of the United States as *prima facie* evidence of the truth of the statements therein contained [§113,000] (*acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, p. 1003, sec. 1*) ----- \$201,960.00

NOTE.—There is an apparent increase in this item of \$88,960, but taking into consideration the transfers to the statutory roll amounting to \$12,040 (\$9,740 from the regular item and \$2,300 from the emergency item "Market inspection of perishable foods," the actual increase is \$101,000. Inasmuch as it is proposed to transfer all of the emergency funds (\$51,000) to the regular item, the actual increase requested for carrying on this work is only \$50,000. This amount will be required in order to conduct an inspection service for butter, cheese, eggs, and poultry, which has been begun on an experimental scale.

The appropriation of \$113,000 carried in the Agricultural act for the current fiscal year, together with the \$51,000 provided under the food production act, will enable the department to place the inspection service for fruits and vegetables upon a permanent basis and make it thoroughly effective and operative at all the points where it is most urgently needed. There seems to be no good reason why these appropriations should not be combined, as this work, although of peculiar usefulness at the present time, is of permanent value and is a necessary and logical development of the activities of the Bureau of Markets.

An inspection service on butter, cheese, eggs, and poultry established upon a national basis has been desired by producers and distributors for many years. In fact, several unavailing efforts have been made by a national association of butter, poultry, and egg dealers to establish such a service. Producers as well as distributors feel distrustful and suspicious of the local grades assigned at terminal markets upon which settlements are based. This lack of confidence retards the development of these industries and the increased production of these products. With the addition of \$50,000 requested it is estimated that a modest service could be conducted at five or six of the most important markets. It is proposed to start work of this character during the current fiscal year, though, necessarily, with the funds in hand, only a small beginning can be made.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*General Expenses, Bureau of Markets—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:		Number.	Number.
Specialist.....per annum..	\$3,750.00	1 (pt. time)	..
Supervising inspector.....do..	3,000.00	1	..
Supervising inspector.....do..	2,500.00	1	..
Supervising inspector.....do..	2,400.00	1 (new)	..
Inspectors.....do..	2,040.00	4	..
Inspectors.....do..	2,000.00	28 (17 new)	..
Inspector.....do..	1,900.00	1	..
Inspectors.....do..	1,800.00	38 (10 new; 11 temp.)	..
Inspector.....do..	1,680.00	1	..
Inspectors.....do..	1,620.00	3	..
Inspectors.....do..	1,600.00	3	..
Inspectors.....do..	1,500.00	4	..
Market station assistant.....do..	1,800.00	1	..
Market station assistant.....do..	1,680.00	1	..
Market station assistants.....do..	1,620.00	3	..
		91	..
Salaries.....		\$144,840.00	.....
Other objects of expenditure:			
Stationery.....		4,000.00	.....
Traveling expenses.....		27,000.00	.....
Equipment and material.....		11,870.00	.....
Telephone and telegraph service.....		4,250.00	.....
Miscellaneous items.....		♦ 10,000.00	.....
Total.....		201,960.00	.....

\* No appropriation for fiscal year 1918.

a Includes about \$8,000 for rent.

- (127) For investigating, demonstrating, and promoting the use of standards for the different grades, qualities, and conditions of cotton, and for investigating the ginning, grading, stapling, baling, marking, compressing, and tare of cotton, \$45,920: *Provided*, That of the sum thus appropriated \$26,960 may be used for testing the waste, tensile strength, and bleaching qualities of the different grades and classes of cotton in order to determine their spinning value and for demonstrating the results of such tests (*acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, p. 1003, sec. 1*) ----- \$45,920.00

*Cotton standards.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Specialist.....per annum..	\$3,000.00	1	1 (parttime)
Specialist.....do..	2,760.00	..	1 (parttime)
Specialist.....do..	2,400.00	1	..
Investigator.....do..	2,280.00	1	1 (parttime)
Assistant.....do..	2,760.00	..	1 (parttime)
Assistant.....do..	1,800.00	1	1
Assistants.....do..	1,620.00	..	2
Clerk*.....do..	1,000.00	..	1 (parttime)
Messenger.....do..	420.00	..	1 (temp.)
Wages:			
Laborer.....per month..	25.00	..	1 (temp.)
		4	10
Salaries.....		\$9,480.00	\$9,668.06
Wages.....			50.00
Other objects of expenditure:			
Stationery.....		200.00	.....
Traveling expenses.....		4,000.00	3,393.49
Equipment and material.....		3,600.00	5,395.23
Telegraph and telephone service.....		150.00	96.68
Miscellaneous items.....		1,530.00	122.85
Total.....		18,960.00	18,726.31

\* Transferred to statutory roll in Agricultural act for 1919.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Markets—Continued.**Cotton testing.*

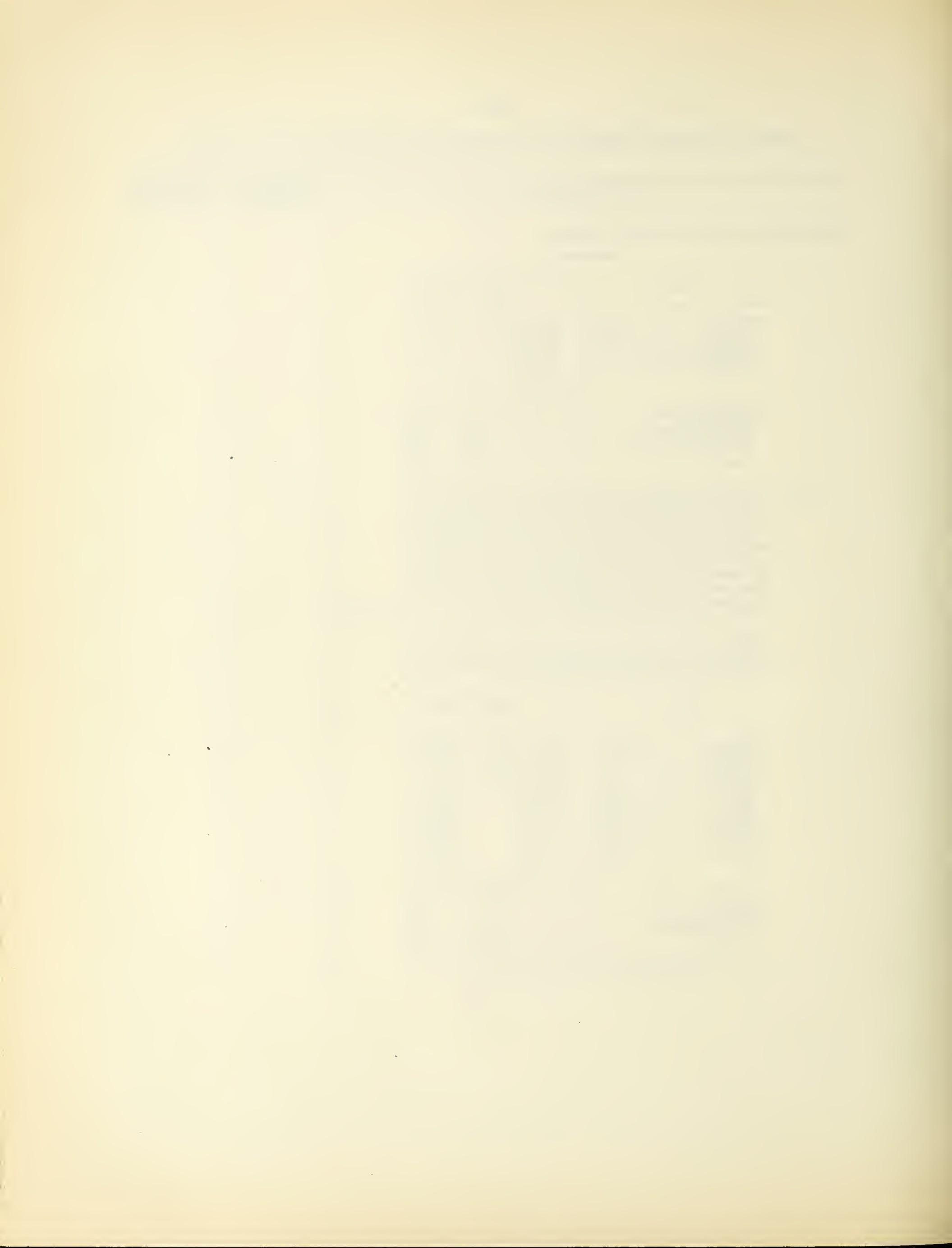
Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Assistant.....per annum..	\$2,760.00	1 (new)	1
Assistant.....do.....	2,280.00	..	1 (temp.)
Assistant.....do.....	2,000.00	2	1
Assistants.....do.....	1,620.00	1	4 (3 temp.)
Assistants.....do.....	1,800.00	2 (new)	..
Assistant in agricultural technology.....do.....	2,040.00	1	..
		7	6
Salaries.....	\$14,020.00		\$10,355.99
Other objects of expenditure:			
Traveling expenses.....	3,415.00		2,471.18
Equipment and material.....	8,750.00		10,640.05
Telegraph and telephone service.....	75.00		17.70
Miscellaneous items.....	700.00		64.96
Total.....	26,960.00		23,549.88

- (128) To enable the Secretary of Agriculture to make studies of co-operation among farmers in the United States in matters of rural credits and of other forms of cooperation in rural communities; to diffuse among the people of the United States useful information growing out of these studies, in order to provide a basis for a broader utilization of results secured by the research, experimental, and demonstration work of the Department of Agriculture, agricultural colleges, and State experiment stations [ \$28,280 ] (acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, p. 1003, sec. 1) ----- \$25,780.00

NOTE.—There is an apparent decrease in this item of \$2,500, due to the transfer to the statutory roll of this bureau of 1 clerk at \$1,000, 1 messenger boy at \$480, and 1 charwoman at \$300, and the transfer of 1 watchman at \$720 to the statutory roll of the Secretary's office.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		<i>Number.</i>	<i>Number.</i>
Specialist.....per annum..	\$3,780.00	1 (new)	1 (pt. time)
Investigator.....do.....	2,760.00	..	1 (pt. time)
Investigators.....do.....	2,640.00	2 (1 new)	1
Investigator.....do.....	2,000.00	..	1 (temp.)
Assistants.....do.....	2,100.00	2 (1 new)	1
Assistant.....do.....	1,800.00	1 (new)	1 (temp.)
Assistants.....do.....	1,620.00	1	2 (1 temp.)
Clerk *.....do.....	1,000.00	..	1
Clerks.....per diem..	3.00	..	3 (temp.)
Messenger.....per annum..	480.00	..	1 (pt. time)
Charwoman*.....do.....	480.00	..	1 (pt. time)
Watchmen.....per month..	66.00	..	2 (temp.)
Wages:			
Laborers.....do.....	25.00	..	2 (temp.)
Electrician.....per diem..	4.00	..	1 (pt. time)
		7	19
Salaries.....	\$16,680.00		\$15,474.29
Wages.....			774.00
Other objects of expenditure:			
Stationery.....	500.00		112.02
Traveling expenses.....	5,000.00		2,111.75
Equipment and material.....	2,000.00		995.20
Miscellaneous items.....	1,600.00		76.12
Total.....	25,780.00		19,543.38

\* Transferred to statutory roll in Agricultural act for 1919.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Markets—Continued.*

- (129) To enable the Secretary of Agriculture to cooperate with the several States in the employment of agents to acquire and diffuse useful information connected with the distribution and marketing of farm products through investigational, demonstrational, or extension methods [§61,500] (acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, p. 1003, sec. 1) ----- \$94,960.00

NOTE.—There is an apparent increase in this item of \$33,460, but taking into consideration the transfer to the statutory roll of 1 clerk at \$960, the actual increase is \$34,420. The heavy demands for assistance made upon the department by State institutions and by individuals necessitates more adequate provision for this work in the States in which field agents have been placed than heretofore has been possible, and with this increase the work can be expanded in the 25 States now provided with field agents in marketing and can be conducted on a full-year basis in six additional States in which it is proposed to inaugurate the work before the close of the present fiscal year. Field agents in marketing are now employed in Arkansas, Arizona, Colorado, Connecticut, Georgia, Indiana, Iowa, Louisiana, Massachusetts, Michigan, Minnesota, Mississippi, Montana, Nebraska, New Mexico, North Carolina, North Dakota, Oregon, South Carolina, Tennessee, Texas, Utah, Vermont, Virginia, and Washington, and it is probable that Kansas, Missouri, Florida, Oklahoma, Kentucky, and Idaho will be added to the list before July, 1919.

This work provides a most valuable means of coordinating and standardizing the marketing work undertaken by the Federal Government and various State agencies. It affords an excellent opportunity for developing a broad and consistent marketing policy, through which great economies may be effected. There are special marketing problems in each State which demand and should receive special attention. The State authorities have welcomed this work and, in most instances, make larger contributions to its maintenance than does the Federal Government.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Specialist.....per annum..	\$2,760.00	1	1
Investigator.....do.....	2,760.00	1	1
Investigators.....do.....	2,500.00	2 (1 new)	..
Investigator.....do.....	2,250.00	1 (new)	..
Assistant.....do.....	1,500.00	..	1 (part time)
Assistant.....do.....	1,200.00	1	1
Field agent.....do.....	2,760.00	..	1
Field agent.....do.....	2,400.00	..	1
Field agents.....do.....	2,000.00	11 (9 new)	2
Field agent.....do.....	1,980.00	1	..
Field agents.....do.....	1,800.00	2	4
Field agent.....do.....	1,700.00	1	1
Field agents.....do.....	1,500.00	11 (9 new)	3
Field agent.....do.....	1,380.00	..	1
Field agent.....do.....	1,350.00	1	1
Field agent.....do.....	1,320.00	1	..
Field agents.....do.....	1,260.00	2	2
Field agents.....do.....	1,200.00	3	2
Field agents, \$900 to \$200.....do.....	..	7	3
Field agents, \$181.82 to \$33.50..per month.....do.....	..	1	4
Agent.....per annum..	2,200.00	..	1
Clerk.....do.....	1,400.00	..	1 (temp.)
Clerks (1 *).....do.....	1,200.00	..	2 (1 temp.)
Clerk *.....do.....	1,000.00	..	1
Messengers (1 *).....do.....	180.00	..	2 (1 temp.)
Collaborators, clerks, and messengers, \$420 to \$12.....do.....	..	8 (temp.)	8 (temp.)
Wages:			
Laborers and helpers, \$50 to \$25.....per month.....	..	3 (temp.)	3 (temp.)
.....	58	47	
Salaries.....	\$72,650.00	\$30,960.29	
Wages.....	150.00	122.00	
Other objects of expenditure:			
Stationery.....	1,000.00	128.87	
Traveling expenses.....	9,900.00	3,513.39	
Equipment and material.....	5,500.00	495.97	
Miscellaneous items.....	5,760.00	248.89	
Total.....	94,960.00	35,469.41	

\* Transferred to statutory roll in Agricultural act for 1919.  
(NOTE.—A portion of the salary of field agent in marketing usually is defrayed by the States in which cooperative work is done.)



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																																																																																				
<i>General Expenses, Bureau of Markets—Continued.</i>																																																																																																																																																																																																						
(130) For investigating the handling, grading, and transportation of grain, including the grain sorghums, for the purpose of fixing definite grades thereof [§92,750] (acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, p. 1003, sec. 1) .. \$86,050.00																																																																																																																																																																																																						
NOTE.—There is an apparent decrease in this item of \$6,700, due to the transfer to the statutory roll of 1 clerk of class 4, 3 clerks of class 1, 1 clerk at \$1,000, and 1 charwoman at \$300.																																																																																																																																																																																																						
<table border="1"> <thead> <tr> <th>Employees.</th><th>Rate.</th><th>Estimated, 1920.</th><th>Expended, 1918.</th></tr> </thead> <tbody> <tr> <td>Salaries:</td><td></td><td></td><td></td></tr> <tr> <td>Technologist.....per annum..</td><td>\$3,750.00</td><td>1</td><td>1 (pt. time)</td></tr> <tr> <td>Specialist.....do.....</td><td>3,000.00</td><td>1</td><td>1</td></tr> <tr> <td>Specialist.....do.....</td><td>2,500.00</td><td>1</td><td>1</td></tr> <tr> <td>Supervisors.....do.....</td><td>2,500.00</td><td>2</td><td>2 (1 pt. time.)</td></tr> <tr> <td>Supervisor.....do.....</td><td>2,400.00</td><td>..</td><td>1</td></tr> <tr> <td>Supervisor.....do.....</td><td>2,200.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Supervisor.....do.....</td><td>2,000.00</td><td>1</td><td>1</td></tr> <tr> <td>Investigators.....do.....</td><td>2,500.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Investigator.....do.....</td><td>2,400.00</td><td>1 (new)</td><td>1 (temp.)</td></tr> <tr> <td>Assistant.....do.....</td><td>2,400.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistant.....do.....</td><td>2,100.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistants.....do.....</td><td>2,000.00</td><td>2 (1 new)</td><td>2</td></tr> <tr> <td>Assistants.....do.....</td><td>1,860.00</td><td>2</td><td>2</td></tr> <tr> <td>Assistants.....do.....</td><td>1,800.00</td><td>7 (3 new)</td><td>6 (2 temp.)</td></tr> <tr> <td>Assistant.....do.....</td><td>1,680.00</td><td>1</td><td>1</td></tr> <tr> <td>Assistants.....do.....</td><td>1,620.00</td><td>4</td><td>6 (2 temp.)</td></tr> <tr> <td>Assistants.....do.....</td><td>1,500.00</td><td>2</td><td>4 (temp.)</td></tr> <tr> <td>Assistant.....do.....</td><td>1,400.00</td><td>..</td><td>1 (pt. time.)</td></tr> <tr> <td>Assistant.....do.....</td><td>1,400.00</td><td>1</td><td>..</td></tr> <tr> <td>Assistant.....do.....</td><td>1,200.00</td><td>1</td><td>1</td></tr> <tr> <td>Field agent.....do.....</td><td>1,600.00</td><td>..</td><td>1 (temp.)</td></tr> <tr> <td>Aids.....do.....</td><td>1,620.00</td><td>..</td><td>1 (pt. time)</td></tr> <tr> <td>Aids.....do.....</td><td>1,200.00</td><td>1</td><td>2 (1 pt. time, 1 temp.)</td></tr> <tr> <td>Expert.....per month..</td><td>250.00</td><td>1</td><td>1 (temp.)</td></tr> <tr> <td>Clerk *.....per annum..</td><td>2,250.00</td><td>..</td><td>1 (pt. time)</td></tr> <tr> <td>Clerks (1 †).....do.....</td><td>1,260.00</td><td>..</td><td>2 (1 temp.)</td></tr> <tr> <td>Clerks (2 *) (2 †).....do.....</td><td>1,200.00</td><td>10 (temp.)</td><td>10 (3 temp., 1 pt. time)</td></tr> <tr> <td>Clerk.....do.....</td><td>1,020.00</td><td>1</td><td>1 (temp.)</td></tr> <tr> <td>Clerks (5*) (1 †).....do.....</td><td>1,000.00</td><td>4 (temp.)</td><td>10 (4 temp.)</td></tr> <tr> <td>Clerk *.....do.....</td><td>900.00</td><td>..</td><td>1</td></tr> <tr> <td>Draftsman.....do.....</td><td>1,200.00</td><td>1 (temp.)</td><td>1 (temp.)</td></tr> <tr> <td>Messengers *.....do.....</td><td>480.00</td><td>..</td><td>1</td></tr> <tr> <td>Charwoman *.....do.....</td><td>480.00</td><td>..</td><td>1</td></tr> <tr> <td>Charwoman *.....do.....</td><td>330.00</td><td>..</td><td>1</td></tr> <tr> <td>Charwomen *.....do.....</td><td>240.00</td><td>..</td><td>2</td></tr> <tr> <td>Clerks, collaborators, and charwomen, \$900 to \$1.....do.....</td><td>.....</td><td>10 (temp.)</td><td>13 (temp.)</td></tr> <tr> <td>Wages:</td><td></td><td></td><td></td></tr> <tr> <td>    Laborers, \$480 per annum to     \$1.60.....per diem.....</td><td>.....</td><td>4 (temp.)</td><td>4 (temp.)</td></tr> <tr> <td></td><td></td><td>63</td><td>86</td></tr> <tr> <td>    Salaries.....</td><td>\$56,230.00</td><td>\$64,583.76</td><td></td></tr> <tr> <td>    Wages.....</td><td>1,000.00</td><td>975.00</td><td></td></tr> <tr> <td>Other objects of expenditures:</td><td></td><td></td><td></td></tr> <tr> <td>    Stationery.....</td><td>1,000.00</td><td>99.25</td><td></td></tr> <tr> <td>    Traveling expenses.....</td><td>16,470.00</td><td>12,939.81</td><td></td></tr> <tr> <td>    Equipment and material.....</td><td>4,875.00</td><td>6,269.99</td><td></td></tr> <tr> <td>    Miscellaneous items.....</td><td>6,475.00</td><td>630.19</td><td></td></tr> <tr> <td>Total.....</td><td>86,050.00</td><td>85,498.00</td><td></td></tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:				Technologist.....per annum..	\$3,750.00	1	1 (pt. time)	Specialist.....do.....	3,000.00	1	1	Specialist.....do.....	2,500.00	1	1	Supervisors.....do.....	2,500.00	2	2 (1 pt. time.)	Supervisor.....do.....	2,400.00	..	1	Supervisor.....do.....	2,200.00	..	1 (temp.)	Supervisor.....do.....	2,000.00	1	1	Investigators.....do.....	2,500.00	..	1 (temp.)	Investigator.....do.....	2,400.00	1 (new)	1 (temp.)	Assistant.....do.....	2,400.00	1	..	Assistant.....do.....	2,100.00	1	..	Assistants.....do.....	2,000.00	2 (1 new)	2	Assistants.....do.....	1,860.00	2	2	Assistants.....do.....	1,800.00	7 (3 new)	6 (2 temp.)	Assistant.....do.....	1,680.00	1	1	Assistants.....do.....	1,620.00	4	6 (2 temp.)	Assistants.....do.....	1,500.00	2	4 (temp.)	Assistant.....do.....	1,400.00	..	1 (pt. time.)	Assistant.....do.....	1,400.00	1	..	Assistant.....do.....	1,200.00	1	1	Field agent.....do.....	1,600.00	..	1 (temp.)	Aids.....do.....	1,620.00	..	1 (pt. time)	Aids.....do.....	1,200.00	1	2 (1 pt. time, 1 temp.)	Expert.....per month..	250.00	1	1 (temp.)	Clerk *.....per annum..	2,250.00	..	1 (pt. time)	Clerks (1 †).....do.....	1,260.00	..	2 (1 temp.)	Clerks (2 *) (2 †).....do.....	1,200.00	10 (temp.)	10 (3 temp., 1 pt. time)	Clerk.....do.....	1,020.00	1	1 (temp.)	Clerks (5*) (1 †).....do.....	1,000.00	4 (temp.)	10 (4 temp.)	Clerk *.....do.....	900.00	..	1	Draftsman.....do.....	1,200.00	1 (temp.)	1 (temp.)	Messengers *.....do.....	480.00	..	1	Charwoman *.....do.....	480.00	..	1	Charwoman *.....do.....	330.00	..	1	Charwomen *.....do.....	240.00	..	2	Clerks, collaborators, and charwomen, \$900 to \$1.....do.....	.....	10 (temp.)	13 (temp.)	Wages:				Laborers, \$480 per annum to \$1.60.....per diem.....	.....	4 (temp.)	4 (temp.)			63	86	Salaries.....	\$56,230.00	\$64,583.76		Wages.....	1,000.00	975.00		Other objects of expenditures:				Stationery.....	1,000.00	99.25		Traveling expenses.....	16,470.00	12,939.81		Equipment and material.....	4,875.00	6,269.99		Miscellaneous items.....	6,475.00	630.19		Total.....	86,050.00	85,498.00			
Employees.	Rate.	Estimated, 1920.	Expended, 1918.																																																																																																																																																																																																			
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Specialist.....do.....	3,000.00	1	1																																																																																																																																																																																																			
Specialist.....do.....	2,500.00	1	1																																																																																																																																																																																																			
Supervisors.....do.....	2,500.00	2	2 (1 pt. time.)																																																																																																																																																																																																			
Supervisor.....do.....	2,400.00	..	1																																																																																																																																																																																																			
Supervisor.....do.....	2,200.00	..	1 (temp.)																																																																																																																																																																																																			
Supervisor.....do.....	2,000.00	1	1																																																																																																																																																																																																			
Investigators.....do.....	2,500.00	..	1 (temp.)																																																																																																																																																																																																			
Investigator.....do.....	2,400.00	1 (new)	1 (temp.)																																																																																																																																																																																																			
Assistant.....do.....	2,400.00	1	..																																																																																																																																																																																																			
Assistant.....do.....	2,100.00	1	..																																																																																																																																																																																																			
Assistants.....do.....	2,000.00	2 (1 new)	2																																																																																																																																																																																																			
Assistants.....do.....	1,860.00	2	2																																																																																																																																																																																																			
Assistants.....do.....	1,800.00	7 (3 new)	6 (2 temp.)																																																																																																																																																																																																			
Assistant.....do.....	1,680.00	1	1																																																																																																																																																																																																			
Assistants.....do.....	1,620.00	4	6 (2 temp.)																																																																																																																																																																																																			
Assistants.....do.....	1,500.00	2	4 (temp.)																																																																																																																																																																																																			
Assistant.....do.....	1,400.00	..	1 (pt. time.)																																																																																																																																																																																																			
Assistant.....do.....	1,400.00	1	..																																																																																																																																																																																																			
Assistant.....do.....	1,200.00	1	1																																																																																																																																																																																																			
Field agent.....do.....	1,600.00	..	1 (temp.)																																																																																																																																																																																																			
Aids.....do.....	1,620.00	..	1 (pt. time)																																																																																																																																																																																																			
Aids.....do.....	1,200.00	1	2 (1 pt. time, 1 temp.)																																																																																																																																																																																																			
Expert.....per month..	250.00	1	1 (temp.)																																																																																																																																																																																																			
Clerk *.....per annum..	2,250.00	..	1 (pt. time)																																																																																																																																																																																																			
Clerks (1 †).....do.....	1,260.00	..	2 (1 temp.)																																																																																																																																																																																																			
Clerks (2 *) (2 †).....do.....	1,200.00	10 (temp.)	10 (3 temp., 1 pt. time)																																																																																																																																																																																																			
Clerk.....do.....	1,020.00	1	1 (temp.)																																																																																																																																																																																																			
Clerks (5*) (1 †).....do.....	1,000.00	4 (temp.)	10 (4 temp.)																																																																																																																																																																																																			
Clerk *.....do.....	900.00	..	1																																																																																																																																																																																																			
Draftsman.....do.....	1,200.00	1 (temp.)	1 (temp.)																																																																																																																																																																																																			
Messengers *.....do.....	480.00	..	1																																																																																																																																																																																																			
Charwoman *.....do.....	480.00	..	1																																																																																																																																																																																																			
Charwoman *.....do.....	330.00	..	1																																																																																																																																																																																																			
Charwomen *.....do.....	240.00	..	2																																																																																																																																																																																																			
Clerks, collaborators, and charwomen, \$900 to \$1.....do.....	.....	10 (temp.)	13 (temp.)																																																																																																																																																																																																			
Wages:																																																																																																																																																																																																						
Laborers, \$480 per annum to \$1.60.....per diem.....	.....	4 (temp.)	4 (temp.)																																																																																																																																																																																																			
		63	86																																																																																																																																																																																																			
Salaries.....	\$56,230.00	\$64,583.76																																																																																																																																																																																																				
Wages.....	1,000.00	975.00																																																																																																																																																																																																				
Other objects of expenditures:																																																																																																																																																																																																						
Stationery.....	1,000.00	99.25																																																																																																																																																																																																				
Traveling expenses.....	16,470.00	12,939.81																																																																																																																																																																																																				
Equipment and material.....	4,875.00	6,269.99																																																																																																																																																																																																				
Miscellaneous items.....	6,475.00	630.19																																																																																																																																																																																																				
Total.....	86,050.00	85,498.00																																																																																																																																																																																																				
* Transferred to statutory roll in Agricultural act for 1919. † Recommended for transfer to statutory roll in estimates for 1920.																																																																																																																																																																																																						
(131) To enable the Secretary of Agriculture to carry into effect the Act entitled "An Act to fix standards for Climax baskets for grapes and other fruits and vegetables, and to fix standards for baskets and other containers for small fruits, berries, and vegetables, and for other purposes," approved August thirty-first, nineteen hundred and sixteen, including the employment of such persons and means as the Secretary of Agriculture may deem necessary, in the city of Washington and elsewhere [§5,000] (same acts) .....	3,800.00																																																																																																																																																																																																					
NOTE.—There is an apparent decrease in this item of \$1,200, due to the transfer to the statutory roll of 1 clerk of class 1.																																																																																																																																																																																																						



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Markets—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Investigator.....per annum..	\$2,400.00	1	1
Clerk *.....do.....	1,200.00	..	1
		1	2
Salaries.....		\$2,400.00	\$2,340.00
Other objects of expenditure:			
Stationery.....	100.00	.....	
Traveling expenses.....	850.00	848.39	
Equipment and material.....	150.00	10.49	
Telephone and telegraph service.....	50.00	3.17	
Miscellaneous items.....	250.00	2.02	
Total.....	3,800.00	3,295.07	

\* Recommended for transfer to statutory roll in estimates for 1920.

- (132) To enable the Secretary of Agriculture to [install] purchase such property as may be necessary for, and to construct, equip, and operate an experimental flour mill, baking and other apparatus, in order to investigate the milling and baking qualities of wheat and other grains, [including the payment of] or, if necessary, to pay rent in the city of Washington for such purposes [\$50,000] (acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, p. 1003, sec. 1). \$85,000.00

NOTE.—There is an increase in the above item of \$35,000. In connection with the enforcement of the United States grain-standards act the necessity for having the Government standards for grains established upon a basis of absolute accuracy is imperative. To this end, it is essential that the studies in milling and baking that are being conducted during the current year as a continuation of similar studies of past years should be still further extended in the immediate future.

The appropriation for the current year contemplated the rental of a building to be erected by private capital and the installation in such building of the necessary machinery for a complete milling equipment. In view of the difficulty of securing labor, building materials, and transportation and the fact that such a building must necessarily be of such specialized construction that it will not be serviceable for other uses, and, therefore, that the rate of rental would be extremely high, careful consideration of the entire situation resulted in the conclusion that the rental of a suitable building in the near future will be impossible and that the policy of rental at any time, rather than actual construction and ownership of the building, is undesirable. Accordingly, an estimate is submitted providing for the construction by the department during the fiscal year 1920 of the necessary building, such construction to be entered upon as soon as industrial conditions will permit.

It is estimated that the purchase of the necessary site, the construction of a suitable building, the installation of the necessary equipment, and the operation of a mill of 25-barrel capacity for the fiscal year 1920 would involve a total expenditure of \$94,500. It is thought that a portion of the necessary equipment costing perhaps \$10,000, could be purchased from the funds appropriated for the current year and that an appropriation of \$85,000 for the fiscal year 1920 would be sufficient for the completion of the mill and its operation during the year.

The language of this paragraph has been amended so as to provide the necessary legislation to carry out the above program.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*General Expenses, Bureau of Markets—Continued.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.*
Salaries:		Number.	Number.
Grain supervisor.....per annum..	\$2,280.00	1	..
Assistant.....do.....	2,280.00	2 (new)	..
Head miller.....do.....	2,280.00	1 (new)	..
Assistant miller.....do.....	1,800.00	1 (new)	..
Baker.....do.....	1,800.00	1 (new)	..
Assistant baker.....do.....	1,500.00	1 (new)	..
Laboratory aids.....do.....	1,440.00	2 (new)	..
		9	..
Salaries.....		\$17,080.00	.....
Other objects of expenditure:			
Traveling expenses.....		1,715.00	.....
Equipment and material.....		23,700.00	.....
Miscellaneous items.....		2,505.00	.....
Construction work.....		<sup>a</sup> 40,000.00	.....
Total.....		85,000.00	.....

\* No appropriation for fiscal year 1918.

<sup>a</sup> This construction work will consist of an experimental flour mill at Washington, D. C., containing about 150,000 cubic feet, at 24 cents per cubic foot, \$36,000; experimental site for mill, \$4,000.

- (133) For general administrative expenses in connection with the lines of investigation, experiment, and demonstration conducted in the Bureau of Markets [§19,635] (acts Mar. 4, 1913, vol. 37, p. 854, sec. 1; Oct. 1, 1918, vol. 40, p. 1003, sec. 1) ----- \$24,635.00

NOTE.—There is an apparent increase in this item of \$5,000, but taking into consideration the transfer to the statutory roll of an administrative assistant at \$3,000, the actual increase is \$8,000. This additional amount is necessary in order to meet the expenses for salaries, travel, and equipment properly chargeable to this appropriation.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Assistant chief.....per annum..	\$4,000.00	1	1
Assistant.....do.....	1,980.00	1	..
Assistant.....do.....	1,800.00	..	1 (part time)
Assistant in agricultural technology.....do.....	2,040.00	..	1 (part time)
Clerk *.....do.....	2,250.00	..	1 (part time)
Clerk (1*).....do.....	1,400.00	1 (temp.)	2 (1 temp.)
Clerk.....do.....	1,250.00	1 (temp.)	1 (temp.)
Clerk.....do.....	1,100.00	..	1
Clerk *.....do.....	1,000.00	..	1
Messenger boys (1*).....do.....	480.00	2 (temp.)	4 (3 temp.)
Messenger boys.....do.....	420.00	..	3 (2 temp.)
		6	16
Salaries.....		\$5,980.00	\$11,049.28
Other objects of expenditure:			
Stationery.....		800.00	525.55
Traveling expenses.....		1,500.00	326.25
Equipment and material.....		11,000.00	5,582.52
Telegraph and telephone service.....		300.00	136.10
Miscellaneous items.....		5,055.00	11.94
Total.....		24,635.00	17,631.64

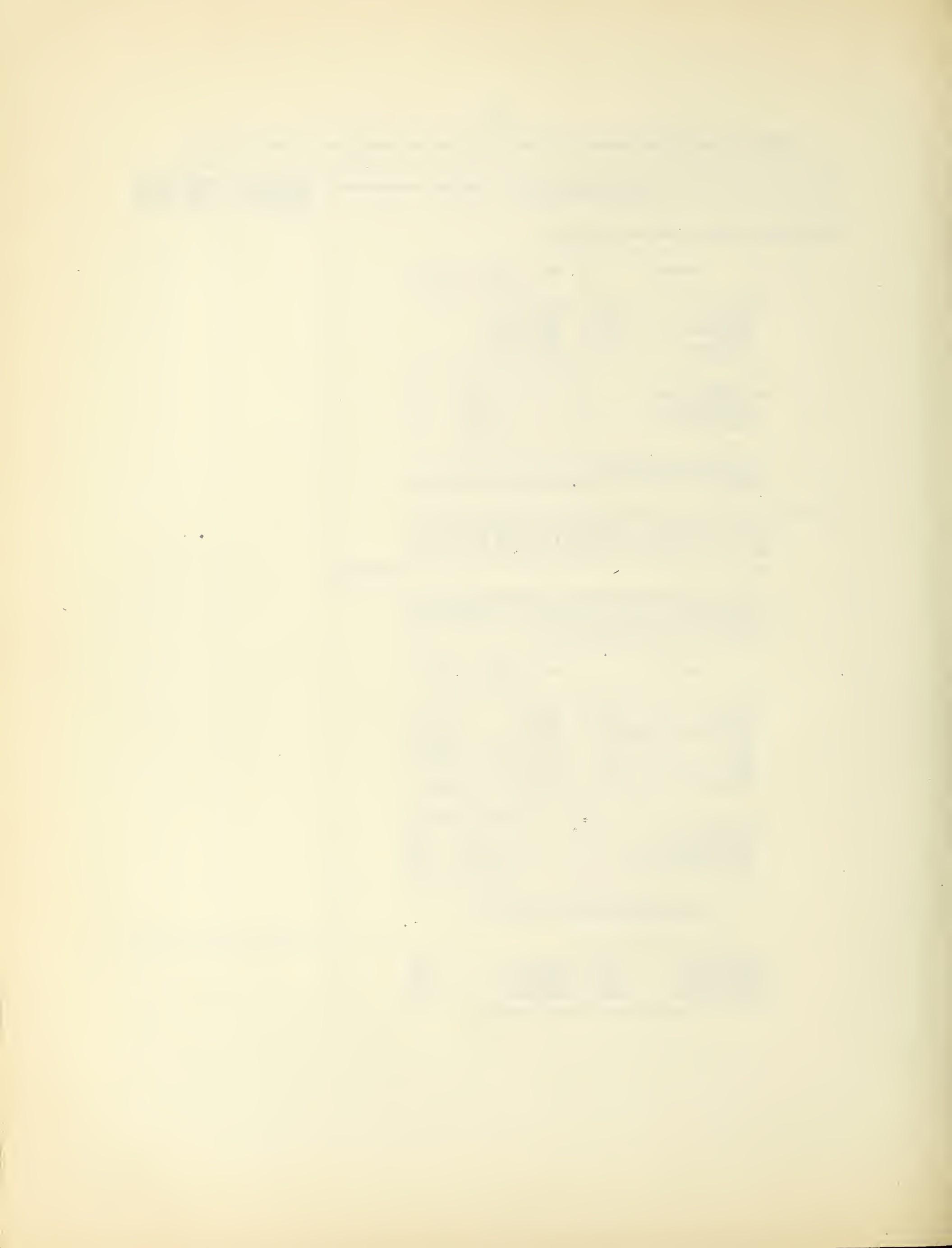
\* Transferred to statutory roll in Agricultural act for 1919.

<sup>a</sup> Recommended for transfer to statutory roll in estimates for 1920.

In all, for general expenses ----- \$1,591,805.00 \$1,011,705.00

Appropriations for 1914.....	\$50,000	Estimates for 1915.....	\$194,140
Appropriations for 1915.....	1 240,000	Estimates for 1916.....	376,595
Appropriations for 1916.....	352,650	Estimates for 1917.....	579,421
Appropriations for 1917.....	621,960	Estimates for 1918.....	808,995
Appropriations for 1918.....	843,395	Estimates for 1919.....	1,003,800
Appropriations for 1919.....	1,011,705	Estimates for 1920.....	1,591,805

<sup>a</sup> Includes investigation of rural cooperation, \$40,000.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																																				
<i>Enforcement of the United States Cotton-Futures Act—</i>																																																																																																																																																						
(134) To enable the Secretary of Agriculture to carry into effect the provisions of the United States cotton-futures act, including all expenses necessary for the purchase of equipment and supplies; for travel; for the employment of persons in the city of Washington and elsewhere; and for all other expenses, including rent outside of the District of Columbia, that may be necessary in executing the provisions of this act, [§113,580] §131,780 (acts May 23, 1908, vol. 35, p. 256, sec. 1; June 30, 1914, vol. 38, p. 422, sec. 1; Aug. 18, 1914, vol. 38, pp. 693-698, secs. 1-21; Mar. 4, 1915, vol. 38, p. 1112, sec. 1; Oct. 1, 1918, vol. 40, p. 1003, sec. 1) -----	\$131,780.00	\$113,580.00																																																																																																																																																				
NOTE.—There is an apparent increase in this item of \$18,200, but taking into consideration the transfer to the statutory roll of 1 clerk of class 4, 1 clerk at \$1,100, 2 chauffeurs at \$900 each, 1 laborer at \$720, 1 laborer at \$600, 1 charwoman at \$480, and 1 charwoman at \$300, amounting to \$6,800, the actual increase is \$25,000. This amount is required for the purchase of cotton for the preparation of standards for Sea Island and American-Egyptian cotton and of types showing length of staple. The price of cotton has greatly increased, as has also miscellaneous material such as boxes, cartons, paper, etc. It is necessary to pay higher salaries to new appointees, and expenses for travel and freight are much greater than heretofore.																																																																																																																																																						
There remains a balance of approximately \$18,000 from the continuing appropriation made available by the act of August 18, 1914. It will be necessary to use the greater part of this balance during the current fiscal year in conjunction with the regular appropriation of \$113,580, making the total expenditures for the present year approximately \$131,000, which is practically the same as requested for 1920.																																																																																																																																																						
During the fiscal year 1918 there was returned to the Treasury, as miscellaneous receipts from the sale of rejected and loose cotton and cotton standards, \$25,604.54. It is estimated that \$40,000 to \$50,000 will be turned back to the Treasury during the fiscal year 1919 on account of such sales.																																																																																																																																																						
<table border="1"> <thead> <tr> <th>Employees.</th> <th>Rate.</th> <th>Estimated, 1920.</th> <th>Expended, 1918.</th> </tr> </thead> <tbody> <tr> <td>Salaries:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Technologist.....per annum.....</td> <td>\$3,600.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Specialist.....do.....</td> <td>3,600.00</td> <td>1</td> <td></td> </tr> <tr> <td>Specialists.....do.....</td> <td>3,000.00</td> <td>2</td> <td>3 (part time)</td> </tr> <tr> <td>Specialists.....do.....</td> <td>2,760.00</td> <td>2</td> <td>2</td> </tr> <tr> <td>Specialist.....do.....</td> <td>2,640.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Investigator.....do.....</td> <td>2,280.00</td> <td>..</td> <td>1 (part time)</td> </tr> <tr> <td>Assistant.....do.....</td> <td>2,760.00</td> <td>1</td> <td>2 (part time)</td> </tr> <tr> <td>Assistant.....do.....</td> <td>2,640.00</td> <td>1</td> <td>1 (part time)</td> </tr> <tr> <td>Assistant.....do.....</td> <td>2,400.00</td> <td>1</td> <td>2 (1 temp.)</td> </tr> <tr> <td>Assistant.....do.....</td> <td>2,040.00</td> <td>..</td> <td>1 (part time)</td> </tr> <tr> <td>Assistant.....do.....</td> <td>2,000.00</td> <td>1</td> <td>1</td> </tr> <tr> <td>Assistant.....do.....</td> <td>1,860.00</td> <td>1</td> <td></td> </tr> <tr> <td>Assistants.....do.....</td> <td>1,800.00</td> <td>5</td> <td>5</td> </tr> <tr> <td>Assistant.....do.....</td> <td>1,620.00</td> <td>1</td> <td>5 (2 temp.)</td> </tr> <tr> <td>Assistant.....do.....</td> <td>1,600.00</td> <td>1</td> <td></td> </tr> <tr> <td>Assistants.....do.....</td> <td>1,500.00</td> <td>2</td> <td>2 (1 temp.)</td> </tr> <tr> <td>Clerk †.....do.....</td> <td>1,800.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Clerks (2*).....do.....</td> <td>1,400.00</td> <td>2 (temp.)</td> <td>4 (2 temp.)</td> </tr> <tr> <td>Clerk.....do.....</td> <td>1,200.00</td> <td>1 (temp.)</td> <td>1 (temp.)</td> </tr> <tr> <td>Clerk (1*).....do.....</td> <td>1,000.00</td> <td>2 (temp.)</td> <td>3 (2 temp.)</td> </tr> <tr> <td>Clerk (1*).....do.....</td> <td>900.00</td> <td>..</td> <td>3 (2 temp.)</td> </tr> <tr> <td>Messenger*.....do.....</td> <td>540.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Messenger*.....do.....</td> <td>420.00</td> <td>..</td> <td>1 (part time)</td> </tr> <tr> <td>Messenger*.....do.....</td> <td>360.00</td> <td>..</td> <td>1 (part time)</td> </tr> <tr> <td>Charwomen †.....do.....</td> <td>480.00</td> <td>..</td> <td>3</td> </tr> <tr> <td>Charwomen*.....do.....</td> <td>300.00</td> <td>..</td> <td>3</td> </tr> <tr> <td>Charwomen†.....do.....</td> <td>240.00</td> <td>..</td> <td>1 (part time)</td> </tr> <tr> <td>Chauffeur†.....do.....</td> <td>900.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Watchmen (1*).....do.....</td> <td>720.00</td> <td>2 (temp.)</td> <td>3 (2 temp.)</td> </tr> <tr> <td>Clerk, messengers, student assistants, cotton classer's helpers, and charwoman, \$900 to \$480.....do.....</td> <td></td> <td>12 (temp.)</td> <td>13 (temp.)</td> </tr> <tr> <td>Wages:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Laborer †.....do.....</td> <td>600.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Laborer *.....do.....</td> <td>540.00</td> <td>..</td> <td>1</td> </tr> <tr> <td>Laborers, \$840 to \$300.....do.....</td> <td></td> <td>15 (temp.)</td> <td>18 (temp.)</td> </tr> <tr> <td></td> <td></td> <td>54</td> <td>86</td> </tr> </tbody> </table>	Employees.	Rate.	Estimated, 1920.	Expended, 1918.	Salaries:				Technologist.....per annum.....	\$3,600.00	1	1	Specialist.....do.....	3,600.00	1		Specialists.....do.....	3,000.00	2	3 (part time)	Specialists.....do.....	2,760.00	2	2	Specialist.....do.....	2,640.00	..	1	Investigator.....do.....	2,280.00	..	1 (part time)	Assistant.....do.....	2,760.00	1	2 (part time)	Assistant.....do.....	2,640.00	1	1 (part time)	Assistant.....do.....	2,400.00	1	2 (1 temp.)	Assistant.....do.....	2,040.00	..	1 (part time)	Assistant.....do.....	2,000.00	1	1	Assistant.....do.....	1,860.00	1		Assistants.....do.....	1,800.00	5	5	Assistant.....do.....	1,620.00	1	5 (2 temp.)	Assistant.....do.....	1,600.00	1		Assistants.....do.....	1,500.00	2	2 (1 temp.)	Clerk †.....do.....	1,800.00	..	1	Clerks (2*).....do.....	1,400.00	2 (temp.)	4 (2 temp.)	Clerk.....do.....	1,200.00	1 (temp.)	1 (temp.)	Clerk (1*).....do.....	1,000.00	2 (temp.)	3 (2 temp.)	Clerk (1*).....do.....	900.00	..	3 (2 temp.)	Messenger*.....do.....	540.00	..	1	Messenger*.....do.....	420.00	..	1 (part time)	Messenger*.....do.....	360.00	..	1 (part time)	Charwomen †.....do.....	480.00	..	3	Charwomen*.....do.....	300.00	..	3	Charwomen†.....do.....	240.00	..	1 (part time)	Chauffeur†.....do.....	900.00	..	1	Watchmen (1*).....do.....	720.00	2 (temp.)	3 (2 temp.)	Clerk, messengers, student assistants, cotton classer's helpers, and charwoman, \$900 to \$480.....do.....		12 (temp.)	13 (temp.)	Wages:				Laborer †.....do.....	600.00	..	1	Laborer *.....do.....	540.00	..	1	Laborers, \$840 to \$300.....do.....		15 (temp.)	18 (temp.)			54	86		
Employees.	Rate.	Estimated, 1920.	Expended, 1918.																																																																																																																																																			
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Assistants.....do.....	1,800.00	5	5																																																																																																																																																			
Assistant.....do.....	1,620.00	1	5 (2 temp.)																																																																																																																																																			
Assistant.....do.....	1,600.00	1																																																																																																																																																				
Assistants.....do.....	1,500.00	2	2 (1 temp.)																																																																																																																																																			
Clerk †.....do.....	1,800.00	..	1																																																																																																																																																			
Clerks (2*).....do.....	1,400.00	2 (temp.)	4 (2 temp.)																																																																																																																																																			
Clerk.....do.....	1,200.00	1 (temp.)	1 (temp.)																																																																																																																																																			
Clerk (1*).....do.....	1,000.00	2 (temp.)	3 (2 temp.)																																																																																																																																																			
Clerk (1*).....do.....	900.00	..	3 (2 temp.)																																																																																																																																																			
Messenger*.....do.....	540.00	..	1																																																																																																																																																			
Messenger*.....do.....	420.00	..	1 (part time)																																																																																																																																																			
Messenger*.....do.....	360.00	..	1 (part time)																																																																																																																																																			
Charwomen †.....do.....	480.00	..	3																																																																																																																																																			
Charwomen*.....do.....	300.00	..	3																																																																																																																																																			
Charwomen†.....do.....	240.00	..	1 (part time)																																																																																																																																																			
Chauffeur†.....do.....	900.00	..	1																																																																																																																																																			
Watchmen (1*).....do.....	720.00	2 (temp.)	3 (2 temp.)																																																																																																																																																			
Clerk, messengers, student assistants, cotton classer's helpers, and charwoman, \$900 to \$480.....do.....		12 (temp.)	13 (temp.)																																																																																																																																																			
Wages:																																																																																																																																																						
Laborer †.....do.....	600.00	..	1																																																																																																																																																			
Laborer *.....do.....	540.00	..	1																																																																																																																																																			
Laborers, \$840 to \$300.....do.....		15 (temp.)	18 (temp.)																																																																																																																																																			
		54	86																																																																																																																																																			

† Recommended for transfer to statutory roll in estimate for 1920.

\* Transferred to statutory roll in Agricultural act for 1919.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	
<i>Enforcement of the United States Cotton-Futures Act—Continued.</i>			
	Rate.	Estimated, 1920.	Expended, 1918.
Salaries.....		\$42,600.00	\$48,252.15
Wages.....		3,000.00	4,480.00
Other objects of expenditure:			
Traveling expenses.....		9,000.00	4,454.53
Equipment and material.....		62,000.00	23,716.76
Telephone and telegraph service.....		3,000.00	789.36
Miscellaneous items.....		12,180.00	2,529.86
Total.....		131,780.00	84,222.66
Appropriation for 1916..... \$75,000   Estimate for 1917..... \$120,750			
Appropriation for 1917..... 120,750   Estimate for 1918..... 98,600			
Appropriation for 1918..... 98,600   Estimate for 1919..... 88,580			
Appropriation for 1919..... 113,580   Estimate for 1920..... 131,780			
(135) To enable the Secretary of Agriculture to carry into effect the provisions of the United States grain standards act, including such rent and the employment of such persons and means as the Secretary of Agriculture may deem necessary, in the city of Washington and elsewhere, [§456,580] §598,600: <i>Provided, That section 6 of the said act is hereby amended, effective on and after the passage of this act, by striking out of the first sentence the words "sold, offered for sale, or consigned for sale, or which has been shipped, or delivered for shipment in interstate or foreign commerce shall have been inspected," and substituting therefor the words "shall have been inspected by an inspector licensed under the act," and by striking out of the last sentence the words "made after the parties in interest have had opportunity to be heard," (acts Aug. 11, 1916, vol. 39, pp. 482-485, secs. 1-2; Oct. 1, 1918, vol. 40, p. 1003, sec. 1)</i> -----	\$598,600.00	\$456,580.00	
NOTE.—There is an apparent increase in this item of \$142,020, but taking into consideration the transfers to the statutory roll of this bureau amounting to \$32,140 and the transfer of 1 clerk of class 2 to the statutory roll of the Secretary's office, the actual increase is \$113,560. The regular appropriation for the enforcement of the grain standards act during the current fiscal year will be supplemented by a balance of approximately \$42,000 from the continuing appropriation of \$250,000 carried in the agricultural appropriation act for the fiscal year 1917, so that the actual increase for the next year over present funds will be only \$113,560.			
This increase is desired in order to enable the department to conduct the work necessary to enforce the present standards for wheat and corn in an adequate and satisfactory way, to promulgate standards for rice and oats and to enforce such standards, and to render increased service to the grain trade by passing informally on the correct grade of grain not handled under regular appeals.			
The large amount of extra work which has been done in response to the demands of the Food Administration Grain Corporation must be continued during the period in which guaranteed prices for wheat are effective. Not only is this agency urging more adequate inspection with present standards, but it desires the establishment of standards for rice. In the absence of official standards, the War Department, which must continue for some time to be a large purchaser of oats, is obliged to purchase on standards established by the trade. The establishment and proper supervision of standards for oats should contribute much to the economy and efficiency of such purchases.			
In enforcing the present standards more adequately it is imperatively necessary to secure greater uniformity of inspection between markets, to handle effectively the increasing number of appeals received from the trade, and to investigate in a prompt and thorough manner complaints regarding the work of licensed inspectors. In enforcing standards for rice and oats it will be necessary to obtain additional employees, additional supplies and equipment, and to make other necessary expenditures.			
The language of this paragraph has been amended by adding an amendment, the purpose of which is:			



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*Enforcement of the United States Grain Standards Act—Continued.*

(1) To permit the Secretary of Agriculture to entertain an appeal from the grade assigned by a licensed inspector to any lot of grain inspected and graded according to the official grain standards of the United States.

(2) To permit the Secretary of Agriculture to issue findings immediately after determining the appeal without serving notice on all interested parties.

The present language of section 6 permits the Secretary of Agriculture to entertain an appeal from the grading of a licensed inspector only when the grain is involved in interstate commerce. It is desirable to permit the Secretary of Agriculture to entertain appeals on intra as well as interstate grain for the following reasons:

(1) To maintain the integrity of the grain standards of the United States. Inspectors who grade intrastate grain under the Federal standards frequently do not apply the standards correctly, thereby discrediting the standards and the Federal grain supervision work.

(2) To protect those buyers and sellers who base transactions on Federal standards who do not now have the appeal privilege. Farmers and country elevator operators frequently are denied the right of appeal to the Secretary of Agriculture because their grain, although graded by a licensed inspector and according to the official grain standards of the United States, does not move interstate. Also, operators of public warehouses frequently must take into the house grain graded according to the official grain standards of the United States without the right of appeal even though they believe the grading is incorrect.

(3) To meet criticism of the act by country shippers and other intrastate dealers in grain to the effect that the act is of little or no benefit to them. Such persons frequently express dissatisfaction with the law because they are obliged to accept the grading of an inspector without recourse.

The language of section 6 now requires that all parties interested in the transaction, other than those filing the appeal, be afforded an opportunity to be heard before the issuance of the findings of the Secretary of Agriculture. It is desirable to permit the Secretary of Agriculture to issue findings without opportunity for hearing for the following reasons:

(1) To avoid delay in the handling of grain involved in an appeal.

(2) To avoid delay in the settlement of a transaction involving an appeal. To afford opportunity for hearing requires the serving of notice to interested parties, which involves a lapse of time—sometimes as much as two weeks—because of the distance from the point of appeal of other interested parties.

(3) Because an appeal is for the sole purpose of ascertaining the true grade of the grain in question, which is determined by an examination of the grain itself. The decision is not influenced in any way by statements of interested parties. Moreover, the true grade must be determined at once. Therefore, the opportunity for hearing serves no purpose in determining the question at issue. The opportunity for hearing has not been utilized by any party at interest in the 3,500 appeals thus far entertained by the Secretary of Agriculture.

(4) Because opportunity for hearing is contrary to trade practices and is considered "red tape" by the grain trade.

Employees.	Rate.	Estimates, 1920.	Expended, 1918.
Salaries:		Number.	Number.
Specialist.....per annum..	\$3,600.00	1	1
Specialist.....do.....	3,500.00	1	1 (part time)
Specialists.....do.....	3,000.00	2	1
Crop technologist.....do.....	3,750.00	..	1 (part time)
Investigators.....do.....	2,820.00	..	2 (1 temp.)
Investigator.....do.....	2,640.00	1	..
Investigator.....do.....	2,400.00	1	..
Supervisor.....do.....	3,500.00	1 (new)	..
Supervisors.....do.....	3,240.00	7	4
Supervisors.....do.....	3,000.00	11 (4 new)	6 (temp.)
Supervisors.....do.....	2,760.00	8 (2 new)	6 (2 part time)
Supervisor.....do.....	2,700.00	1	1
Supervisors.....do.....	2,640.00	6	3
Supervisors.....do.....	2,520.00	2	2
Supervisors.....do.....	2,500.00	6 (1 new)	4
Supervisors.....do.....	2,400.00	8	4
Supervisor.....do.....	2,340.00	1	1
Supervisors.....do.....	2,280.00	6 (3 new)	3
Supervisor.....do.....	2,040.00	1	..
Supervisors.....do.....	2,000.00	2 (1 new)	3
Supervisor.....do.....	1,800.00	1	1
Supervisors.....do.....	1,500.00	..	2
Assistant grain supervisors.....do.....	1,800.00	3	..
Assistant grain supervisors.....do.....	1,680.00	2	..
Assistant (administrative)†.....do.....	3,000.00	..	1



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Enforcement of the United States Grain Standards Act—Continued.</i>		

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
Salaries—Continued.		Number.	Number.
Assistant.....per annum.	\$2,640.00	1	1
Assistant.....do.....	2,520.00	3	1
Assistants.....do.....	2,400.00	2	2
Assistants.....do.....	2,280.00	4	5
Assistant.....do.....	2,160.00	..	1(part time)
Assistants.....do.....	1,800.00	5	9 (2 temp.)
Assistant.....do.....	1,680.00	1	1
Assistant.....do.....	1,620.00	2	1
Assistant.....do.....	1,500.00	1	..
Assistant.....do.....	1,440.00	1	2
Inspector.....do.....	1,500.00	..	1 (temp.)
Inspectors.....do.....	1,200.00	..	2 (temp.)
Inspector.....per diem.....	10.00	..	1 (temp.)
Sampler.....per annum.	1,860.00	1	1
Samplers.....do.....	1,800.00	4	6 (1 temp.)
Sampler.....do.....	1,680.00	1	1
Samplers.....do.....	1,620.00	24 (1 new)	4
Sampler.....do.....	1,600.00	1	..
Samplers.....do.....	1,500.00	45	15
Samplers.....do.....	1,440.00	10	6
Samplers.....do.....	1,400.00	2	3
Samplers.....do.....	1,380.00	2	3
Sampler.....do.....	1,350.00	1	..
Samplers.....do.....	1,320.00	5	7 (2 temp.)
Sampler.....do.....	1,300.00	1 (new)	..
Samplers.....do.....	1,260.00	3	3
Samplers.....do.....	1,200.00	16	20 (7 temp.)
Sampler.....do.....	1,140.00	1	..
Samplers.....do.....	1,080.00	..	2 (temp.)
Assistant grain sampler.....do.....	2,280.00	..	1
Clerk *.....do.....	2,250.00	..	1 (part time)
Clerks (2†) (1*).....do.....	1,400.00	..	7 (4 temp.)
Clerks†.....do.....	1,320.00	..	1
Clerks (12†) (20*).....do.....	1,200.00	6 (temp.)	38 (6 temp.)
Clerks (3†) (3*).....do.....	1,100.00	..	8 (2 temp.)
Clerks (1*).....do.....	1,080.00	..	2 (1 temp.)
Clerks*.....do.....	1,020.00	..	3 (1 part time)
Clerks (14*).....do.....	1,000.00	6 (temp.)	20 (6 temp.; 4 part time)
Clerks (1*).....do.....	900.00	..	9 (8 temp.)
Draftsman †.....do.....	1,200.00	..	1
Messengers (2*).do.....	480.00	4 (temp.)	6 (4 temp.; 1 part time)
Messengers (2*).do.....	420.00	..	4 (2 temp.; 1 part time)
Clerks, telephone operators, student assistants and messengers, \$960 to \$300.....per annum.	..	6 temp.)	10 (temp.)
Wages:			
Laborer*.....do.....	660.00	..	1
Laborers, \$600 to \$300.....do.....	..	3 (temp.)	5 (temp.)
		228	261
Salaries.....	\$406,200.00	\$299,869.29	
Wages.....	1,100.00	1,583.00	
Other objects of expenditure:			
Stationery.....	4,000.00	1,413.33	
Traveling expenses.....	45,700.00	28,688.58	
Equipment and material.....	66,600.00	37,382.37	
Telephone and telegraph service.....	5,000.00	2,809.95	
Miscellaneous items.....	a 70,000.00	45,526.51	
Total.....	598,600.00	417,273.03	

\* Transferred to statutory roll in Agricultural act for 1919.

† Recommended for transfer to statutory roll in estimates for 1920.

a Includes \$52,000 for rent.

Appropriation for 1917.....	\$250,000	Estimate for 1918.....	\$519,140
Appropriation for 1918.....	519,140	Estimate for 1919.....	456,580
Appropriation for 1919.....	456,580	Estimate for 1920.....	598,600

*Administration of the United States Warehouse Act—*

- (136) To enable the Secretary of Agriculture to carry into effect the provisions of the United States Warehouse Act, including the payment of such rent and the employment of such persons and means as the Secretary of Agriculture may deem necessary, in the city of Washington and elsewhere, [§53,540] \$69,980 (acts Aug. 11, 1916, vol. 39, pp. 486-491, secs. 1-33; Oct. 1, 1918, vol. 40, p. 1003, sec. 1) ----- \$69,980.00      \$53,540.00

NOTE.—There is an apparent increase in this item of \$16,440, but taking into consideration the transfer to the statutory roll of this bureau of 1 executive clerk, at \$2,000, 1 clerk of class 1, and 1 charwoman, at \$240,



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*Administration of the United States Warehouse Act—Continued.*

amounting to \$3,440, and the transfer of 1 watchman, at \$720, to the statutory roll of the Secretary's office, the actual increase is \$20,600. There remains a balance of about \$38,000 available from the continuing appropriation of \$50,000 for the administration of the warehouse act carried in the agricultural appropriation act for the fiscal year 1917. Of this amount probably three-fourths will be expended during the current fiscal year; so that the funds proposed for the fiscal year 1920 will be practically the same as the amount to be expended during 1919.

The efficient use of warehouse facilities should exert a great influence in stabilizing financial conditions in the period of readjustment now beginning to take place, and it is believed that the operation of the warehouse act will assist in accomplishing this result.

As soon as qualified eligibles can be obtained, an investigator should be appointed for work in connection with wool warehouses and another to work with grain warehouses. Additional men will be needed to inspect warehouses applying for license and to conduct other field work. Rules and regulations have been made to govern the procedure of cotton warehouses licensed under the act, and the work of issuing licenses has been started. Tentative regulations have been prepared covering the operation of tobacco and grain warehouses, and considerable progress has been made with investigations preliminary to the establishment of tobacco standards.

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Specialist.....per annum..	\$3,600.00		
Specialist.....do.....	2,610.00	1	1
Investigators.....do.....	2,700.00	3 (1 new)	1
Investigator.....do.....	2,100.00	..	1 (temp.)
Investigator.....do.....	2,100.00	1	1 (part time)
Investigator.....do.....	2,040.00	1	1
Investigator.....do.....	1,800.00	1	1
Assistants.....do.....	2,100.00	5 (4 new)	1
Assistants.....do.....	1,800.00	7 (5 new)	4 (1 temp.; 2 part time)
Assistants.....do.....	1,620.00	3 (2 new)	1
Assistant.....do.....	1,500.00	..	1
Clerk (law).....do.....	2,500.00	1	1
Clerk*.....do.....	2,250.00	..	1 (part time)
Clerk†.....do.....	2,000.00	..	1
Clerks*.....do.....	1,400.00	1	2 (1 temp.; 1 part time)
Clerks (1*).....do.....	1,200.00	4 (temp.)	5 (4 temp.; 1 part time)
Clerk.....do.....	1,100.00	..	1 (temp.)
Clerks and messengers, \$900 to \$420.....do.....	..	..	4 (temp.)
Charwomen (1*; 1†).....do.....	240.00	..	2
Wages:			
Laborers, \$840 to \$300.....do.....	..	6 (temp.)	6 (temp.)
		34	37
Salaries.....		\$43,640.00	\$25,185.31
Wages.....		1,000.00	980.00
Other objects of expenditure:			
Stationery.....		1,500.00	..
Traveling expenses.....		13,000.00	5,247.40
Equipment and material.....		5,500.00	1,070.01
Miscellaneous items.....		5,340.00	755.27
Total.....		69,980.00	33,237.99

\*Transferred to statutory roll in Agricultural act for 1919.

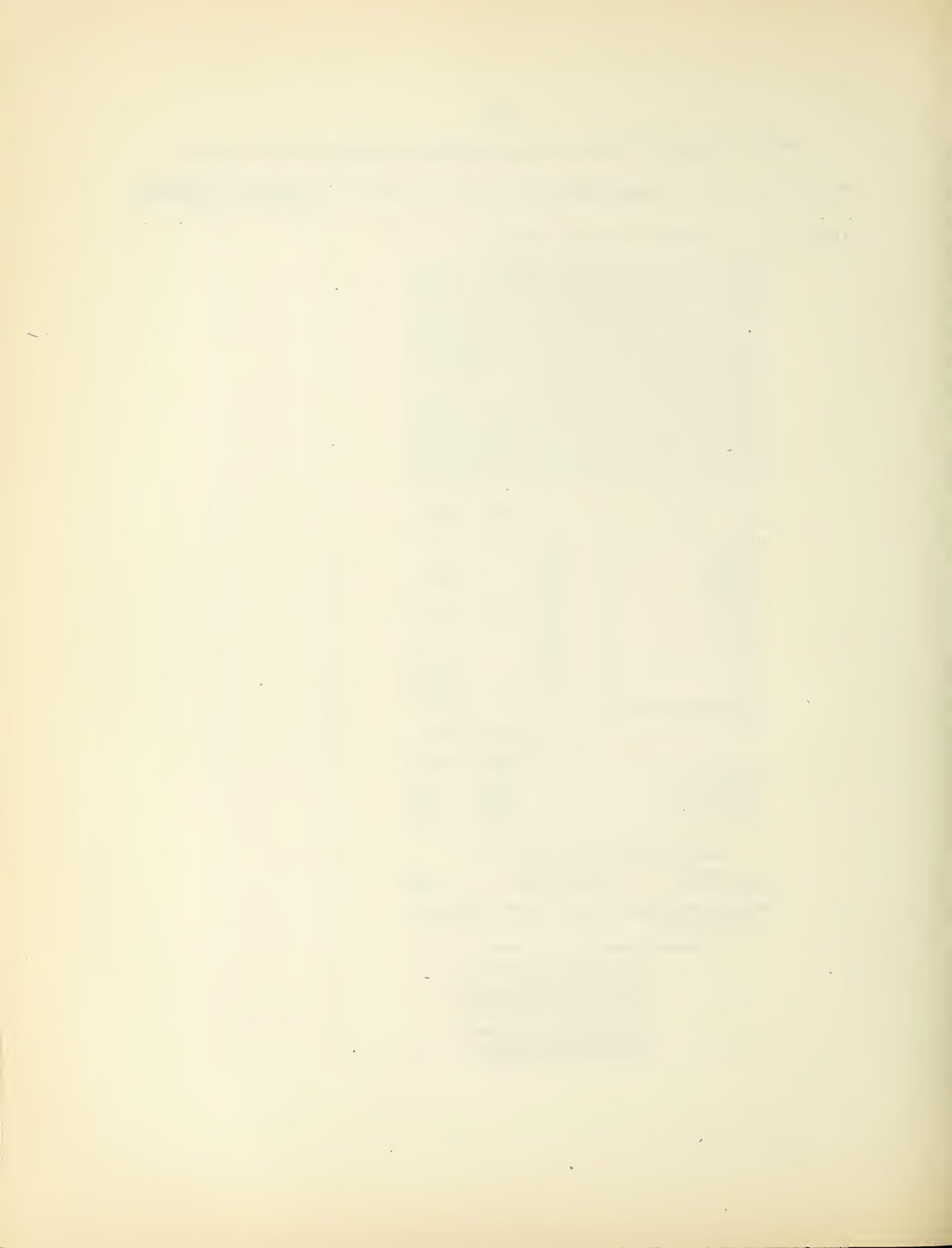
†Recommended for transfer to statutory roll in estimates for 1920.

Appropriation for 1917.....	\$50,000	Estimates for 1918.....	\$59,620
Appropriation for 1918.....	59,620	Estimates for 1919.....	53,540
Appropriation for 1919.....	53,510	Estimates for 1920.....	69,980

*Statement of clerks employed in District of Columbia under lump-fund appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).*

## GENERAL EXPENSES—BUREAU OF MARKETS.

- 6 clerks, at \$1,400 each per annum.
- 1 clerk, \$1,320 per annum.
- 5 clerks, at \$1,260 each per annum.
- 20 clerks, at \$1,200 each per annum.
- 2 clerks, at \$1,100 each per annum.
- 1 clerk, \$1,020 per annum.
- 18 clerks, at \$1,000 each per annum.
- 4 clerks, at \$990 each per annum.
- 20 clerks, at \$900 each per annum.
- 16 clerks, at \$3 each per diem.

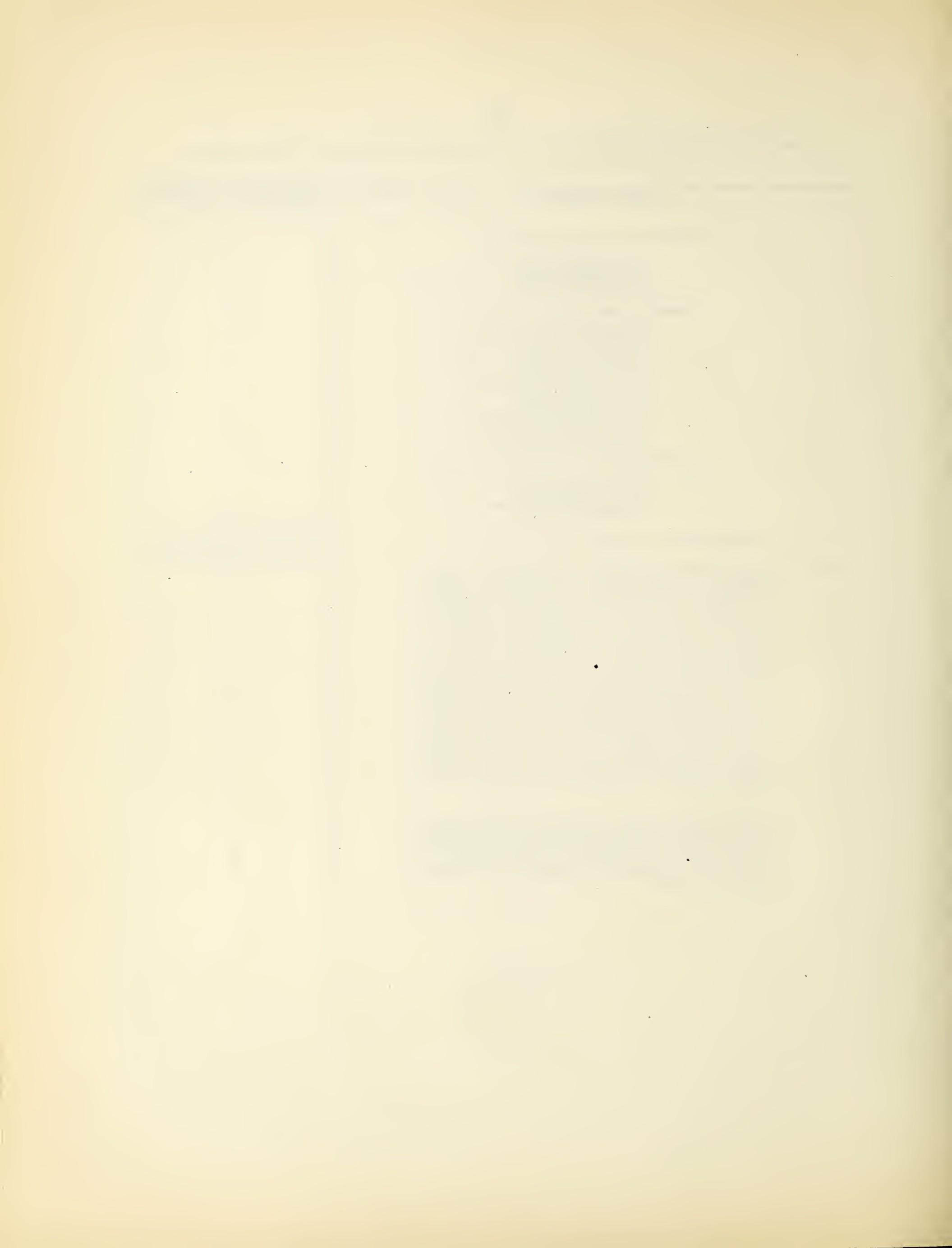


*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<b>ENFORCEMENT OF THE COTTON FUTURES ACT.</b>		
1 clerk, \$1,800 per annum. 1 clerk, \$1,400 per annum. 1 clerk, \$1,000 per annum. 1 clerk, \$900 per annum.		
<b>ENFORCEMENT OF THE GRAIN STANDARDS ACT.</b>		
3 clerks, at \$1,400 each per annum. 1 clerk, \$1,320 per annum. 1 clerk, \$1,260 per annum. 17 clerks, at \$1,200 each per annum. 1 clerk, \$1,122 per annum. 2 clerks, at \$1,100 each per annum. 1 clerk, \$1,080 per annum. 1 clerk, \$1,020 per annum. 5 clerks, at \$1,000 each per annum. 7 clerks, at \$900 each per annum. 7 clerks, at \$3 each per diem.		
<b>ADMINISTRATION OF THE WAREHOUSE ACT.</b>		
1 clerk, \$2,000 per annum. 1 clerk, \$1,400 per annum. 2 clerks, at \$1,200 each per annum. 1 clerk, \$1,100 per annum.		
<b>Total for Bureau of Markets</b> -----	\$3,131,455.00	\$2,023,255.00

- (137) In the performance of the duties required of the Bureau of Markets in the administration or enforcement of provisions of acts (United States cotton-futures act, Thirty-ninth Statutes at Large, page four hundred and seventy-six; United States grain standards act, Thirty-ninth Statutes at Large, page four hundred and eighty-two; United States warehouse act, Thirty-ninth Statutes at Large, page four hundred and eighty-six; standard container act, Thirty-ninth Statutes at Large, page six hundred and seventy-three; and the acts making annual appropriations for the Department of Agriculture) relating to the Department of Agriculture, the Secretary of Agriculture, or any representative authorized by him for the purpose, shall have power to administer oaths, examine witnesses, and call for the production of books and papers, during the fiscal year ending June thirtieth, nineteen hundred and [nineteen] twenty (act Oct. 1, 1918, vol. 40, p. 1004, sec. 1).

NOTE.—The language of this paragraph has been amended by changing the last word thereof, "nineteen," to "twenty," so that the authority to administer oaths in connection with the administration or enforcement of the provisions of the cotton futures act, the grain standards act, the warehouse act, the standard container act, and the acts making annual appropriations for the Department of Agriculture may be extended to cover the fiscal year 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
ENFORCEMENT OF THE INSECTICIDE ACT.		
<i>Salaries, Enforcement of the Insecticide Act—</i>		
(1) One executive officer ( <i>R. S., p. 87, secs. 520-523; acts Apr. 26, 1910, vol. 36, pp. 331-335, secs. 1-14; Oct. 1, 1918, vol. 40, p. 1004, sec. 1</i> )-----	\$2,750.00	
(2) One executive assistant ( <i>same acts</i> )-----	2,000.00	
(3) One clerk, class 3 ( <i>same acts</i> )-----	1,600.00	
(4) One clerk, class 2 ( <i>same acts</i> )-----	1,400.00	
(5) Two clerks, class 1 (increase of 1 by transfer from lump fund for general expenses) ( <i>same acts</i> )-----	2,400.00	
(6) Two clerks, at \$1,140 each ( <i>same acts</i> )-----	2,280.00	
(7) Two clerks, at \$1,000 each ( <i>same acts</i> )-----	2,000.00	
(8) Three insecticide and fungicide inspectors, at \$1,600 each ( <i>same acts</i> )-----	4,800.00	
(9) Two clerks and sample collectors, at \$1,000 each ( <i>same acts</i> )-----	2,000.00	
(10) One sample and storeroom custodian ( <i>same acts</i> )-----	1,200.00	
(11) One laboratory helper ( <i>same acts</i> )-----	840.00	
(12) One laboratory helper ( <i>same acts</i> )-----	720.00	
(13) One laboratory helper ( <i>same acts</i> )-----	600.00	
(14) One unskilled laborer ( <i>same acts</i> )-----	600.00	
(15) One unskilled laborer ( <i>same acts</i> )-----	480.00	
(16) Two messenger boys or laborers, at \$480 each ( <i>same acts</i> )-----	960.00	
(17) One messenger boy ( <i>same acts</i> )-----	360.00	
(18) Two charwomen, at \$480 each ( <i>same acts</i> )-----	960.00	
	\$27,950.00	\$26,750.00
Appropriations for 1916..... <sup>(1)</sup>   Estimates for 1917.....\$24,590		
Appropriations for 1917.....824,590   Estimates for 1918.....23,990		
Appropriations for 1918.....25,070   Estimates for 1919.....26,750		
Appropriations for 1919.....26,750   Estimates for 1920.....27,950		
1 Salaries paid from lump fund appropriation for enforcement of the insecticide act.		
NOTE.—Apparent increase, \$1,200; no actual increase, as follows:		
<i>Transfer from lump fund of this office, which fund has been correspondingly reduced.</i>		
1 clerk, class 1, from general expenses.....	\$1,200	
SUPPLEMENTAL ESTIMATE.		
<i>Promotions:</i>		
(19) 1 executive assistant, \$2,000 to \$2,280-----	\$280	
(This employee has charge of the many details involved in the development of cases under the insecticide act requiring expert legal knowledge, and, in the absence of the executive officer, is in charge of the administrative work of the Insecticide and Fungicide Board, including direction of inspectors and sample collectors. He has been in the department over 7 years and was last promoted February 16, 1913.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Enforcement of the Insecticide Act—Continued.</i>		
<i>Promotions—Continued.</i>		
(20) 1 clerk, class 1, to 1 clerk, class 2 -----	\$200	
(An increase of \$200 is recommended in the salary of a very capable stenographer, who is rendering valuable service in connection with the preparation of cases.)		
(21) 1 clerk, \$1,140, to 1 insecticide and fungicide inspector, \$1,400 -----	260	
(This employee was appointed to devote his time partly to clerical work and partly to the collection of samples of insecticides and fungicides and inspection work. He has developed special proficiency for inspection work and has been assigned to such duties entirely. The salary now paid him is inadequate considering the character of work he performs. The change in title recommended is for the purpose of clearly indicating the character of work performed.)		
(22) 2 insecticide and fungicide inspectors, \$1,600 to \$1,800 each -----	400	
(The present salary of these inspectors is lower than that paid employees performing similar work in other branches of the department. Each of these men is required to cover a number of States and to perform continuous travel throughout the year. They have been in the department 9 and 11 years, respectively, and were last promoted on May 1, 1913, and January 1, 1914.)		
(23) 1 laboratory helper, \$840, to 1 laboratory assistant, \$1,000 -----	160	
(This promotion is recommended in the case of an efficient and reliable laboratory assistant. His thorough knowledge of the laboratory work makes his services of special value in training new laboratory helpers. This employee has been in the department over 4 years and was last promoted March 8, 1917. His present salary is wholly inadequate for the class of work performed. The change in title indicated is also desirable.)		
(24) 1 laboratory helper, \$720 to \$900 -----	180	
(This promotion and those which follow are recommended in order that the salaries of the respective positions may conform to the minimum salaries recommended for such positions, as set forth in the general note regarding minimum salaries. The changes in title are necessary in order clearly to indicate the character of work performed.)		
(25) 1 laboratory helper, \$600 to \$900 -----	300	
(See preceding note.)		
(26) 1 unskilled laborer, \$600, to 1 laborer, \$900 -----	300	
(See preceding note.)		
(27) 1 unskilled laborer, \$480, to 1 laborer, \$900 -----	420	
(See preceding note.)		
(28) 1 messenger boy, \$360 to \$480 -----	120	
(See preceding note.)		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Salaries, Enforcement of the Insecticide Act—Continued.</i>		
<i>New place:</i>		
(29) 1 clerk, class 1 . . . . .	\$1, 200	
(It is now necessary to employ temporary clerks to keep the work of the Insecticide and Fungicide Board up to date. This is unsatisfactory as it means that time must be wasted by scientists in continually training new clerks. There is need for such clerical assistance constantly, and it would add to the efficiency of the work to have the place filled by a permanent employee. It is proposed to fill this new place by original appointment.)		
Net increase . . . . .	3, 820	
<i>Changes in title:</i>		
(30) 2 messenger boys or laborers, at \$480 each, to 2 messenger boys, at \$480 each.		
(These changes are recommended in order that the titles of the positions may clearly indicate the character of work performed.)		
<i>General Expenses, Enforcement of the Insecticide Act—</i>		
(31) For salaries and the employment of labor in the city of Washington and elsewhere, furniture, supplies, traveling expenses, rent outside of the District of Columbia, and for all necessary expenses, as follows ( <i>acts Apr. 26, 1910, vol. 36, pp. 331-335, secs. 1-14; Oct. 1, 1918, vol. 40, p. 1004, sec. 1</i> ):		
(32) To enable the Secretary of Agriculture to carry into effect the provisions of the Act of April twenty-sixth, nineteen hundred and ten, entitled "An Act for preventing the manufacture, sale, or transportation of adulterated or misbranded Paris greens, lead arsenates, and other insecticides, and also fungicides, and for regulating traffic therein, and for other purposes," [§\$94,490] \$94,790 ( <i>same acts</i> ) . . . . .	\$94, 790. 00	\$94, 490. 00
NOTE.—There is an apparent increase in this item of \$300, but taking into consideration the transfer to the statutory roll of 1 clerk of class 1, the actual increase is \$1,500. This amount will be needed to provide for additional traveling expenses, due to the advance in railroad and Pullman fares, and the increased cost of insecticide and fungicide samples.		
<i>Employees.</i>	<i>Rate.</i>	<i>Estimated, 1920.</i>
		<i>Number.</i>
Salaries:		<i>Number.</i>
Chairman of board.....per annum.....	\$4,000.00	1
Chairman of board.....do.....	3,800.00	1
Scientific assistant.....do.....	3,500.00	1
Scientific assistant.....do.....	3,200.00	1
Scientific assistant.....do.....	3,000.00	1
Scientific assistant.....do.....	2,760.00	1
Scientific assistant.....do.....	2,750.00	1
Scientific assistant.....do.....	2,520.00	1
Scientific assistant.....do.....	2,500.00	1
Scientific assistants.....do.....	2,280.00	3
Scientific assistant.....do.....	2,160.00	1
Scientific assistants.....do.....	2,040.00	2
Scientific assistants.....do.....	2,000.00	1
Scientific assistant.....do.....	1,980.00	1
Scientific assistant.....do.....	1,920.00	1
Scientific assistant.....do.....	1,860.00	1
Scientific assistants.....do.....	1,800.00	6
Scientific assistant.....do.....	1,620.00	1
Scientific assistant.....do.....	1,500.00	1
Scientific assistants.....do.....	1,440.00	6
Scientific assistant.....do.....	1,400.00	1
Scientific assistant.....do.....	1,200.00	1
Clerk.....do.....	1,400.00	..
Clerk†.....do.....	1,200.00	1
Nurseryman.....do.....	1,020.00	1
Charwoman*.....do.....	480.00	1

\*Transferred to statutory roll in Agricultural act for 1919.

†Recommended for transfer to statutory roll in estimates for 1920.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	
<i>General Expenses, Enforcement of the Insecticide Act—Continued.</i>			
<i>Employees.</i>	<i>Rate.</i>	<i>Estimated, 1920.</i>	
Salaries—Continued. Field assistants, nurseryman, charwomen, chemist aids, clerks, watchmen, and fire- man, \$900 to \$240 ..... per annum..		<i>Number.</i> 7 (temp.)	
Wages: Miscellaneous temporary labor per diem	\$6.00-\$4.00	10 (9 temp.)	
		3	
		..	
		39	
Salaries.....		\$61,370.00	
Wages.....		215.00	
Other objects of expenditure:			
Stationery.....		1,200.00	
Traveling expenses.....		14,500.00	
Equipment and material.....		9,000.00	
Miscellaneous items.....		8,505.00	
Total.....		94,790.00	
		73,463.74	
Appropriation for 1911.....	\$35,000	Estimates for 1912.....	\$87,000
Appropriation for 1912.....	87,000	Estimates for 1913.....	100,000
Appropriation for 1913.....	87,000	Estimates for 1914.....	100,000
Appropriation for 1914.....	95,000	Estimates for 1915.....	95,000
Appropriation for 1915.....	95,000	Estimates for 1916.....	107,780
Appropriation for 1916.....	100,000	Estimates for 1917.....	85,670
Appropriation for 1917.....	80,410	Estimates for 1918.....	87,430
Appropriation for 1918.....	87,430	Estimates for 1919.....	94,490
Appropriation for 1919.....	94,490	Estimates for 1920.....	94,790
<i>Statement of clerks employed in District of Columbia under lump fund appropriations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).</i>			
GENERAL EXPENSES—ENFORCEMENT OF THE INSECTICIDE ACT.			
3 stenographers and typewriters, at \$900 each per annum.			
Total for Enforcement of the Insecticide Act .....	\$122,740.00	\$121,240.00	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	
<b>FEDERAL HORTICULTURAL BOARD.</b>			
<i>Salaries, Federal Horticultural Board—</i>			
(1) One secretary of board ( <i>R. S., p. 87, secs. 520–523; acts Mar. 4, 1913, vol. 37, pp. 853, 854, sec. 1; Oct. 1, 1918, vol. 40, p. 1004, sec. 1</i> ) . . . . .	\$2,280.00		
(2) One executive clerk ( <i>same acts</i> ) . . . . .	2,000.00		
(3) One clerk, class 4 ( <i>same acts</i> ) . . . . .	1,800.00		
(4) One clerk, class 3 ( <i>same acts</i> ) . . . . .	1,600.00		
(5) One clerk (by transfer from lump fund for eradication of pink bollworm) ( <i>same acts</i> ) . . . . .	1,560.00		
(6) Three clerks, at \$1,440 each (increase of 1 by transfer from lump fund for eradication of pink bollworm) ( <i>same acts</i> ) . . . . .	4,320.00		
(7) Two clerks, class 2 ( <i>same acts</i> ) . . . . .	2,800.00		
(8) Two clerks, at \$1,260 each ( <i>same acts</i> ) . . . . .	2,520.00		
(9) Two clerks, class 1 (increase of 1 by transfer from lump fund for eradication of pink bollworm) ( <i>same acts</i> ) . . . . .	2,400.00		
(10) One clerk ( <i>same acts</i> ) . . . . .	1,080.00		
(11) Six clerks, at \$1,000 each ( <i>same acts</i> ) . . . . .	6,000.00		
(12) One clerk ( <i>same acts</i> ) . . . . .	900.00		
(13) One messenger boy (by transfer from lump fund for general expenses) ( <i>same acts</i> ) . . . . .	600.00		
(14) One messenger boy ( <i>same acts</i> ) . . . . .	480.00		
(15) Two messenger boys, at \$360 each ( <i>same acts</i> ) . . . . .	720.00		
(16) One charwoman ( <i>same acts</i> ) . . . . .	240.00		
	\$31,300.00	\$26,500.00	
Appropriations for 1916 . . . . . Appropriations for 1917 . . . . . Appropriations for 1918 . . . . . Appropriations for 1919 . . . . .	(1) \$13,640 20,500 26,500	Estimates for 1917 . . . . . Estimates for 1918 . . . . . Estimates for 1919 . . . . . Estimates for 1920 . . . . .	\$13,640 20,500 26,500 31,300
<sup>1</sup> Salaries paid from lump fund.			
NOTE.—Apparent increase, \$4,800; no actual increase, as follows:			
<i>Transfers from lump funds of this board, which funds have been correspondingly reduced.</i>			
1 clerk, from eradication of pink bollworm . . . . . 1 clerk, from eradication of pink bollworm . . . . . 1 clerk, class 1, from eradication of pink bollworm . . . . . 1 messenger boy, from general expenses . . . . .	\$1,560 1,440 1,200 600		
Apparent increase . . . . .	4,800		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
SUPPLEMENTAL ESTIMATE.		
<i>Salaries, Federal Horticultural Board—Continued.</i>		
<i>Promotions:</i>		
(17) 2 messenger boys, \$360 to \$480 . . . . .	\$240	
(These promotions are recommended in order that the salaries of the positions may conform to the minimum salary recommended for messenger boys, as set forth in the general note regarding minimum salaries.)		
<i>New places:</i>		
(18) 5 clerks, class 1 . . . . .	6,000	
(These places and 1 clerk, \$1,980, are submitted in lieu of 6 clerks, at \$1,000 each, 1 clerk, \$1,080, and 1 clerk, \$900, dropped as below. It is impossible to secure competent clerks at \$900 and \$1,000. Several positions on the statutory roll of the Federal Horticultural Board have been vacant over a year. It is proposed to fill the higher-salaried places requested either by original appointments or by transfers of lump-fund places to be created during the course of the year. No promotions are contemplated.)		
(19) 1 clerk . . . . .	1,980	\$8,220
(See preceding note.)		
<i>Places dropped:</i>		
(20) 1 clerk . . . . .	1,080	
(This place and 6 clerks, at \$1,000 each, and 1 clerk, \$900, are recommended omitted as indicated in the note under item 18.)		
(21) 6 clerks, at \$1,000 each . . . . .	6,000	
(See note under item 18.).		
(22) 1 clerk . . . . .	900	7,980
(See note under item 18.)		
Net increase . . . . .		240
<i>General Expenses, Federal Horticultural Board—</i>		
(23) For salaries and the employment of labor in the city of Washington and elsewhere, furniture, supplies, traveling expenses, rent outside of the District of Columbia, and for all other necessary expenses, as follows ( <i>acts Mar. 4, 1913, vol. 37, pp. 853, 854, sec. 1; Oct. 1, 1918, vol. 40, p. 1005, sec. 1</i> ):		
(24) To enable the Secretary of Agriculture to carry into effect the provisions of the Act of August twentieth, nineteen hundred and twelve, as amended, entitled "An Act to regulate the importation of nursery stock and other plants and plant products; to enable the Secretary of Agriculture to establish and maintain quarantine districts for plant diseases and insect pests; to permit and regulate the movement of fruits, plants, and vegetables therefrom, and for other purposes, [§48,300] §47,700 ( <i>same acts</i> ) . . . . .	\$47,700.00	\$48,300.00

NOTE.—There is an apparent decrease in the above item of \$600, due to the transfer of a messenger boy to the statutory roll.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.		
<i>General Expenses, Federal Horticultural Board—Continued.</i>				
	Employees.	Rate.	Estimated, 1920.	Expended, 1918.
			Number.	Number.
Salaries:				
Pathological inspector.....per annum..	\$3,000.00	1	1	
Pathological inspector.....do.....	2,400.00	2	3 (1 temp.)	
Pathological inspector.....do.....	1,800.00	1 (new)	3 (temp.)	
Assistant pathological inspector.....do.....	1,620.00	1	1	
Assistant pathologist.....do.....	2,340.00	1	1	
Scientific assistant.....do.....	2,000.00	..	1 (temp.)	
Scientific assistant.....do.....	1,800.00	1	1	
Assistant in charge cotton importa- tions *.....do.....	2,000.00	..	1	
Assistant in plant disinfection.....do.....	1,620.00	1	1	
Assistant in plant disinfection.....do.....	1,440.00	..	1 (temp.)	
Chief inspector.....do.....	2,640.00	1	1	
Entomological inspector.....do.....	1,800.00	3	3	
Entomological Inspector.....do.....	1,600.00	3	3 (1 temp.)	
Entomological inspector.....do.....	1,500.00	2	2	
Quarantine inspector.....do.....	2,520.00	1	1	
Quarantine inspector.....do.....	2,400.00	..	1 (temp.)	
Quarantine inspector.....do.....	1,800.00	1	1	
Quarantine inspector.....do.....	1,440.00	1	1	
Field inspector.....do.....	1,440.00	1	1	
Clerk *.....do.....	1,000.00	..	2 (1 temp.)	
Stenographer and typewriter.....do.....	1,200.00	..	1 (temp.)	
Stenographer and typewriter.....do.....	1,000.00	..	1 (temp.)	
Messenger †.....do.....	600.00	..	1	
Collaborators, student assistant, and firemen, \$720 to \$1.....do.....	75	70 (2 temp.)		
		96	103	
Salaries.....	\$43,000.73	\$42,453.34		
Other objects of expenditure:				
Stationery.....	750.00	996.85		
Traveling expenses.....	2,000.00	2,826.45		
Equipment and material.....	1,000.00	1,158.08		
Miscellaneous items.....	949.27	1,436.31		
Total.....	47,700.00	48,871.03		
* Transferred to statutory roll in Agricultural act for 1919.				
† Recommended for transfer to statutory roll in estimates for 1920.				
Appropriations for 1914.....\$40,000	Estimates for 1914.....\$50,000			
Appropriations for 1915.....50,000	Estimates for 1915.....50,000			
Appropriations for 1916.....50,000	Estimates for 1916.....50,000			
Appropriations for 1917.....61,360	Estimates for 1917.....61,360			
Appropriations for 1918.....104,500	Estimates for 1918.....54,500			
Appropriations for 1919.....48,300	Estimates for 1919.....48,300			
	Estimates for 1920.....47,700			
<i>Statement of clerks employed in District of Columbia under lump fund appro- priations for 30 days or more during the fiscal year ended June 30, 1918 (32 Stat., p. 303).</i>				
GENERAL EXPENSES—FEDERAL HORTICULTURAL BOARD.				
1 clerk, \$2,000 per annum.				
1 clerk, \$1,200 per annum.				
5 clerks, at \$1,000 each per annum.				
ERADICATION OF PINK BOLLWORM.				
1 clerk, \$1,560 per annum.				
2 clerks, at \$1,200 each per annum.				
Total for Federal Horticultural Board.....	\$79,000.00	\$74,800.00		
And not to exceed ten per centum of the foregoing amounts for the miscellaneous expenses of the work of any bureau, division, or office herein provided for shall be available interchangeably for expenditures on the objects included within the general expenses of such bureau, division, or office, but no more than ten per centum shall be added to any one item of appropriation except in cases of extraordinary emergency, and then only upon the written order of the Secretary of Agriculture.				
Total, Department of Agriculture, for routine and ordinary work.....	28,204,386.00	25,856,753.00		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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**MISCELLANEOUS.***Demonstrations on Reclamation Projects—*

- (1) To enable the Secretary of Agriculture to encourage and aid in the agricultural development of the Government reclamation projects; to assist, through demonstrations, advice, and in other ways, settlers on the projects; and for the employment of persons and means necessary in the city of Washington and elsewhere (*acts June 30, 1914, vol. 38, p. 440, sec. 1; Oct. 1, 1918, vol. 40, p. 1005, sec. 1*)-----

\$48,600.00

\$48,600.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<i>Number.</i>			
Salaries:			
Agronomist in charge.....per annum.....	\$3,500.00	1	1
Agriculturist.....do.....	2,600.00	1	1 (part time)
Agriculturist.....do.....	2,400.00	1	
Agriculturists.....do.....	2,280.00	6	3 (1 temp.)
Agriculturists.....do.....	2,220.00	1	2
Agriculturists.....do.....	2,040.00	1	2
Agriculturist.....do.....	1,980.00	1	1
Agriculturists.....do.....	1,800.00	..	2
Assistant.....do.....	2,340.00	..	1 (part time)
Assistant.....do.....	2,168.00	..	1
Assistant.....do.....	2,040.00	..	1 (temp.)
Assistant.....do.....	1,400.00	..	1
Superintendent.....do.....	2,040.00	..	1
Collaborators and collaborating clerks—			
\$25.....per month.....		11	2
\$0.50 to \$0.25.....per hour.....		..	9 (2 temp.)
Wages:			
Miscellaneous temporary labor—			
\$50 to \$2.....per month.....		..	8
\$0.30 to \$0.25.....per hour.....		..	5
		23	41
Salaries.....		\$32,440.00	\$26,912.47
Wages.....			122.12
Other objects of expenditure:			
Traveling expenses.....		13,590.00	4,469.63
Equipment and material.....		1,000.00	5,719.12
Miscellaneous items.....		1,660.00	5,035.81
Total.....		48,600.00	42,259.15
Appropriation for 1915.....	\$40,000	Estimate for 1916.....	850,000
Appropriation for 1916.....	40,000	Estimate for 1917.....	40,000
Appropriation for 1917.....	40,000	Estimate for 1918.....	50,000
Appropriation for 1918.....	50,000	Estimate for 1919.....	48,600
Appropriation for 1919.....	48,600	Estimate for 1920.....	48,600

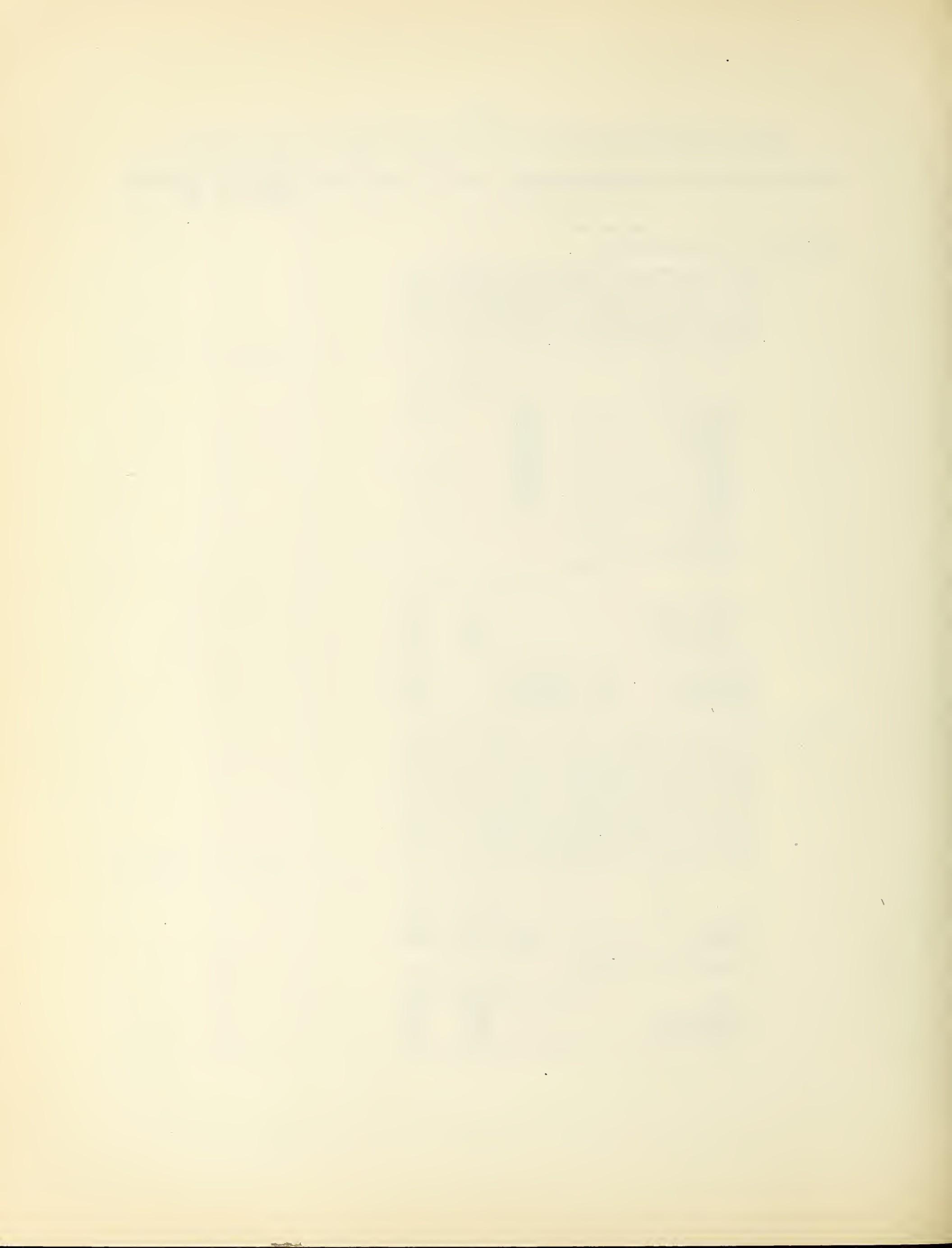
*Cooperative Fire Protection of Forested Watersheds of Navigable Streams—*

- (2) For cooperation with any State or group of States in the protection from fire of the forested watersheds of navigable streams under the provisions of section two of the act of March first, nineteen hundred and eleven, entitled "An act to enable any State to cooperate with any other State or States, or with the United States, for the protection of the watersheds of navigable streams, and to appoint a commission for the acquisition of lands for the purpose of conserving the navigability of navigable rivers" (*acts Mar. 1, 1911, vol. 36, p. 961, sec. 1; Oct. 1, 1918, vol. 40, p. 1005, sec. 1*)-----

100,000.00

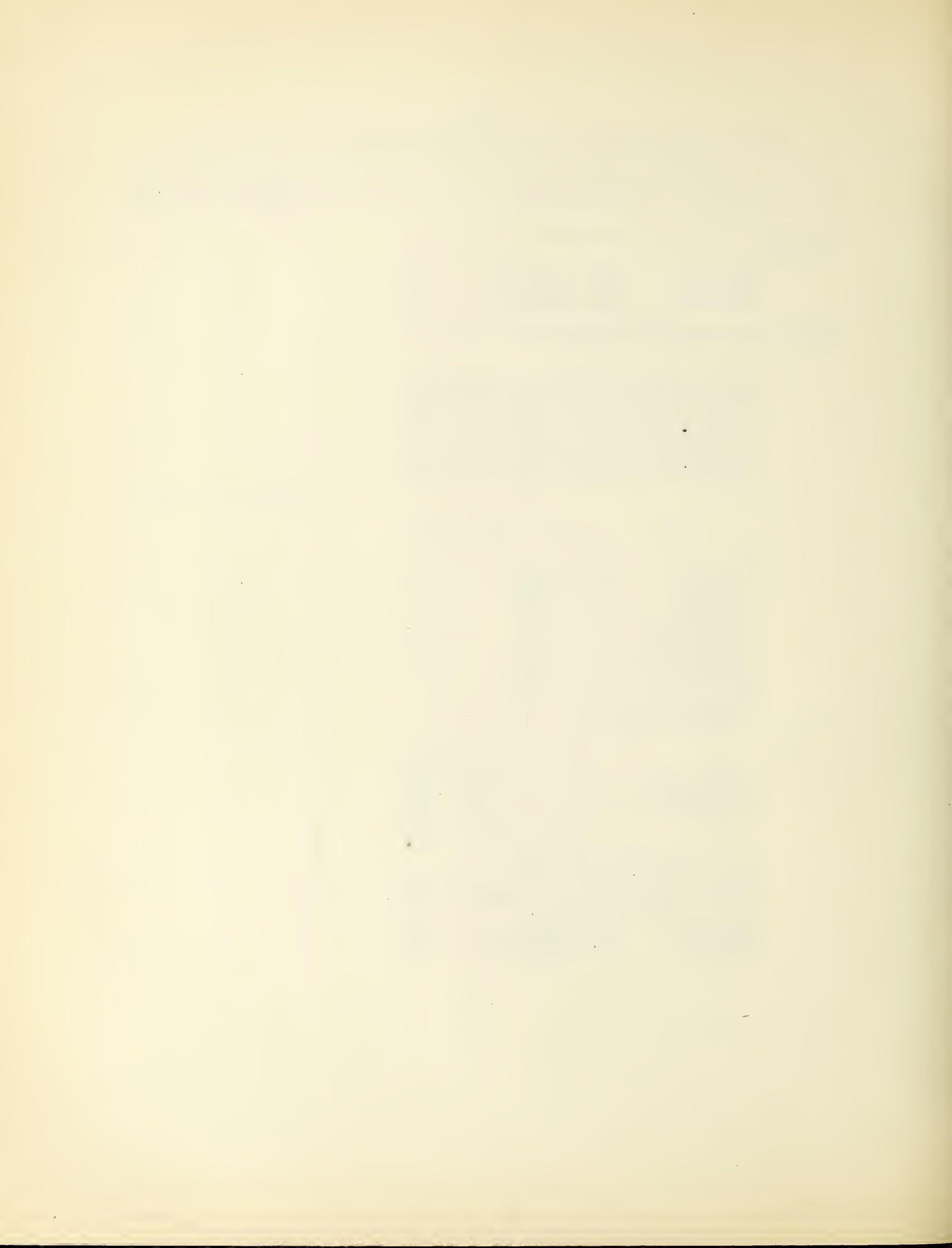
100,000.00

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
<i>Number.</i>			
Salaries:			
Chief, State cooperation.....per annum.....	\$2,800.00	1 (part time)	1 (part time)
Examiner.....do.....	2,500.00	1 (part time)	1 (part time)
Examiner.....do.....	2,300.00	1 (part time)	1 (part time)
Collaborators.....do.....	12.00	35	30
Wages:			
Patrolmen, guards, and laborers, \$112.50 to \$75.....per month.....		285 (temp.)	289 (temp.)
		323	322
Salaries.....		\$5,500.00	\$5,010.00
Wages.....		90,800.00	90,500.00
Other objects of expenditure:			
Traveling expenses.....		2,700.00	2,750.00
Miscellaneous items.....		1,000.00	1,400.00
Total.....		100,000.00	99,660.00



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.																																																																																																																																				
<i>Cooperative Fire Protection of Forested Watersheds of Navigable Streams—Continued.</i>																																																																																																																																						
Appropriation for 1915..... \$100,000   Estimate for 1916..... \$100,000																																																																																																																																						
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Appropriation for 1919..... 100,000   Estimate for 1920..... 100,000																																																																																																																																						
<i>Experiments and Demonstrations in Live-Stock Production in the Cane-Sugar and Cotton Districts of the United States—</i>																																																																																																																																						
(3) To enable the Secretary of Agriculture, in cooperation with the authorities of the States concerned, or with individuals, to make such investigations and demonstrations as may be necessary in connection with the development of live-stock production in the cane-sugar and cotton districts of the United States, including the erection of barns and other necessary buildings, and the employment of persons and means in the city of Washington and elsewhere ( <i>acts June 30, 1914, vol. 38, p. 441, sec. 1; Oct. 1, 1918, vol. 40, p. 1005, sec. 1</i> )-----	\$60,000.00	\$60,000.00																																																																																																																																				
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<i>a</i> This construction work consisted of the following buildings:																																																																																																																																						
1 frame cottage, containing 12,850 cubic feet, at 32 cents per cubic foot..... 84,142.24																																																																																																																																						
1 frame extension to beef cattle barn, containing 34,560 cubic feet, at 5.3 cents per cubic foot..... 1,848.84																																																																																																																																						
1 frame extension to toolshed, containing 19,040 cubic feet, at 5.5 cents per cubic foot..... 1,043.54																																																																																																																																						
1 frame bridge house, 4,080 cubic feet, at 23 cents per cubic foot..... 929.94																																																																																																																																						
1 frame garage, 1,008 cubic feet, at 10 cents per cubic foot..... 105.94																																																																																																																																						
Appropriation for 1915..... \$60,000   Estimate for 1916..... \$60,000																																																																																																																																						
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*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
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*Experiments in Dairying and Live-Stock Production in Semiarid and Irrigated Districts of the Western United States—*

- (4) To enable the Secretary of Agriculture to conduct investigations and experiments in problems connected with the establishment of dairying and meat-production enterprises on the semiarid and irrigated lands of the western United States, including the purchase of live stock, the erection of barns and other necessary buildings, and the employment of necessary persons and means in the city of Washington and elsewhere (*acts Aug. 11, 1916, vol. 39, p. 491, sec. 1; Oct. 1, 1918, vol. 40, p. 1005, sec. 1*)----- \$40,000.00      \$40,000.00

Employees.	Rate.	Estimated, 1920.	Expended. 1918.
Salaries:		Number.	Number.
Assistant dairy husbandmen, per annum.....	\$1,620.00	2	
Assistant dairy husbandman.....do.....	1,500.00		1
Senior dairy herdsman.....do.....	1,400.00		1
Scientific assistant in animal husbandry.....do.....	1,380.00	1	1
Wages:			
Unskilled laborers.....do.....	1,080.00	2	
Unskilled laborer.....do.....	969.00	1	
Temporary laborers, \$75 to \$15 per month.....		8	26
		14	29
Salaries.....	86,740.00	84,227.01	
Wages.....	5,264.00	9,254.47	
Other objects of expenditure:			
Traveling expenses.....	1,100.00	693.01	
Equipment and material.....	500.00	717.49	
Miscellaneous items.....	1 23,996.00	15,363.77	
Construction work.....	a 2,400.00	b 8,163.00	
Total.....	40,000.00	38,418.75	

<sup>1</sup> Includes purchase of live stock and feed.<sup>a</sup> This construction work will consist of the following buildings:

1 root cellar, 2,520 cubic feet, at 20 cents per cubic foot.....	\$1,000.00
1 manure shed, 6,912 cubic feet, at 21.5 cents per cubic foot.....	1,409.00
<sup>b</sup> This construction work consisted of the following buildings:	
1 frame cottage, 12,100 cubic feet, at 48 cents per cubic foot (80 per cent finished).....	\$4,654.02
1 frame milk and ice house, 5,760 cubic feet, at 13 cents per cubic foot.....	754.01
1 concrete silo, 3,400 cubic feet, at 25.2 cents per cubic foot.....	857.59
1 stave silo, 3,400 cubic feet, at 15.5 cents per cubic foot.....	529.86
1 frame young stock shed, 14,400 cubic feet, at 9.5 cents per cubic foot.....	1,367.52

Appropriation for 1917.....	\$40,000	Estimate for 1917.....	\$87,500
Appropriation for 1918.....	40,000	Estimate for 1918.....	40,000
Appropriation for 1919.....	40,000	Estimate for 1919.....	40,000

- (5) That not to exceed **[\$63,000]** **\$75,000** of the lump-sum appropriations herein made for the Department of Agriculture shall be available for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles necessary in the conduct of the field work of the Department of Agriculture outside the District of Columbia: *Provided*, That not to exceed **[\$13,000]** **\$15,000** of this amount shall be expended for the purchase of such vehicles, and that such vehicles shall be used only for official service outside the District of Columbia, but this shall not prevent the continued use for official service of motor trucks in the District of Columbia: *Provided further*, That the Secretary of Agriculture shall, on the first day of each regular session of Congress, make a report to Congress showing the amount expended under the provisions of this paragraph during the preceding fiscal year, (*act Oct. 1, 1918, vol. 40, pp. 1005, 1006, sec. 1*).

NOTE.—It is proposed to increase by \$12,000 the amount that may be expended from lump-sum appropriations of the department for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles necessary in the conduct of the field



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
work of the department, making the limitation \$75,000 instead of \$63,000. Of this \$75,000 the maximum amount that may be used for purchase only has been increased from \$13,000 to \$15,000 to cover the increased cost of vehicles.		
The sum recommended for the fiscal year 1920 is based on a conservative estimate of the minimum amount that will be required properly to provide for the maintenance, repair, and operation of vehicles now owned by the Government and for the purchase, maintenance, repair, and operation of new vehicles necessary to the effective prosecution of the work of the department. The estimate in detail is as follows:		
Maintenance, repair, and operation of vehicles owned by the Government..... \$49,164		
Maintenance, repair, and operation of new vehicles..... 10,390		
Reserve to meet unforeseen contingencies..... 446		
	\$60,000	
Purchase of new vehicles..... 14,325		
Reserve to meet unforeseen contingencies..... 675		
	15,000	
Total.....	75,000	



*Statement of proposed expenditures for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles in the conduct of the field work of the Department of Agriculture outside of the District of Columbia for the fiscal year ending June 30, 1920, as required by section 5 of the act of July 16, 1914 (38 Stat., 508).*

MAINTENANCE, REPAIR, AND OPERATION OF VEHICLES NOW OWNED BY THE DEPARTMENT.

[NOTE.—The amount required for the maintenance, repair, and operation of vehicles to be purchased during the fiscal year ending June 30, 1920, is estimated for below.]

Bureau, division, or office.	Horse-drawn or motor-propelled.	Appropriation.	Number.	Description	Amount.	Public purpose for which intended.	Officials and employees by whom used.
Office of Farm Management.	Motor-propelled.	General expenses, Office of Farm Management.	1	Motorcycle....	\$120.00	Inspecting farms and other outlying districts not accessible by railroad in connection with the study of hay-drying methods.	H. B. McClure.
Weather Bureau.....	do.....	General expenses, Weather Bureau.	1	do.....	60.00	Inspecting and repairing Government telegraph lines.	Official in charge of Weather Bureau station at Cape Henry, Va.
Bureau of Animal Industry.	do.....	Eradicating hog cholera.	23	Automobile....	14,800.00	Transporting veterinarians from farm to farm investigating outbreaks of hog cholera and demonstrating methods for its eradication and control.	Veterinary inspectors at Atlanta, Ga. (3 machines); College Park, Md.; Columbus, Ohio; Des Moines, Iowa (4 machines); Frankfort, Ky.; Indianapolis, Ind. (3 machines); Jefferson City, Mo. (2 machines); Lansing, Mich.; Lincoln, Nebr. (2 machines); Springfield, Ill. (2 machines); Topeka, Kans. (2 machines); and Twin Falls, Idaho.
Do.....	do.....	Hog cholera research..	1	do.....	600.00	Transportation of employees between the Bureau of Animal Industry laboratory at the Iowa Agricultural College (near Ames, Iowa), and the town of Ames to obtain mail, supplies, etc.	Dr. W. B. Niles and assistants.
Do.....	do.....	Inspection and quarantine.	1	do.....	600.00	Inspecting cattle imported along the Canadian border.	Veterinarian at Pembina, N. Dak.
Do.....	do.....	Eradicating cattle ticks.	3	do.....	1,800.00	Traveling from farm to farm inspecting cattle for ticks, and demonstrating methods for their eradication and control.	Veterinary inspectors at Birmingham, Ala., Houston, Tex., and Washington, N. C.
Do.....	do.....	Military horse breeding.	1	do.....	600.00	Inspecting horse-breeding stations in the vicinity of Front Royal, Va., not accessible by railroad.	Animal husbandman at Front Royal, Va.
Do.....	do.....	Poultry feeding and breeding.	1	Motorcycle....	65.00	Transporting foreman of the Government ostrich farm (near Glendale, Ariz.), between the farm and the town of Glendale, a distance of 5 miles, to arrange for the securing of supplies and for transporting small supplies needed at the farm from time to time.	Foreman of Government ostrich farm.
Do.....	Horse-drawn....	Dairy industry.....	1	Buggy.....	25.00	Travel between the Government farm (near Beltsville, Md.), and the town of Beltsville to meet trains and obtain mail and supplies.	Superintendent of the Beltsville farm and farm employees.
Do.....	do.....	Animal husbandry....	1	Omnibus.....	40.00	do.....	Do.
Do.....	do.....	do.....	1	Buggy.....	20.00	do.....	Do.
Do.....	do.....	do.....	1	Two - seated brake.	20.00	do.....	Do.
Do.....	do.....	do.....	1	Buggy.....	75.00	Exercising remount stallion.....	Do.
Do.....	do.....	Military horse breeding.	2	do.....	80.00	Exercising stallions.....	Superintendent of the Morgan horse farm, Middlebury, Vt., and farm employees.
Do.....	do.....	do.....	1	Surrey.....	30.00	For exercising stallions, and travel between the Government farm (near Middlebury, Vt.), and the town of Middlebury to obtain mail and supplies.	Do.
Do.....	do.....	do.....	1	Sleigh.....	15.00	do.....	Do.
Do.....	do.....	do.....	1	Cutter.....	15.00	do.....	Do.
Do.....	do.....	do.....	1	Buggy.....	25.00	Inspecting horse-breeding stations in the vicinity of Lexington, Ky., not accessible by railroad.	Animal husbandman at Lexington, Ky.
Do.....	do.....	do.....	1	do.....	do.....	do.....	Do.
Do.....	do.....	Diseases of animals....	1	Exercising cast.....	25.00	Exercising remount stallions.	Various farm employees.
Do.....	do.....	do.....	1	Buggy.....	25.00	Inspecting Government sheep farm (near Vienna, Vt.), and transporting employees between the farm and the towns of Vienna and Oakton to obtain necessary supplies.	do.....
Do.....	do.....	do.....	1	do.....	25.00	Transporting employees between the Government experiment station, Bethesda, Md., and the District of Columbia line, and carrying small supplies needed at the station from time to time.	Station employees.
Bureau of Plant Industry.	Motor-propelled.	Demonstrations on reclamation projects.	11	Automobile....	5,500.00	Conducting demonstration work on Government reclamation projects. As this work is performed chiefly on individual farms its prosecution necessitates frequent travel to various parts of the projects. The projects have no adequate railroad facilities and the use of motor vehicles is therefore essential in order to assure the most effective results. This is particularly true in instances where demonstration men are called upon to assist farmers in connection with animal diseases where prompt action is imperative.	Agriculturists in charge of demonstrations on the Belle Fourche, Huntley, Tieton, Truckee-Carson, Boise, Minidoka, North Platte, Shoshone, Umatilla, and Yuma reclamation projects.
Do.....	do.....	Crop physiology.....	1	do.....	265.00	Supervision of field experiments being conducted at the Government date garden, Indio, Cal.	Superintendent in charge.
Do.....	do.....	Dry-land agriculture..	1	do.....	600.00	Inspection of cooperative shelterbelt development work being conducted in the States of Montana, North and South Dakota, and Wyoming.	Employees of the Northern Great Plains Field station, Mandan, N. Dak., engaged in shelterbelt development work.
Do.....	do.....	Crop acclimatization..	1	do.....	450.00	Supervising experimental plantings of cotton, corn, and tropical plants in the vicinity of the Government experiment station at Sacaton, Ariz. This work is being performed in close cooperation with the Bureau of Indian Affairs of the Department of the Interior.	Employees of the Sacaton, Ariz., field station.
Do.....	do.....	Forest pathology....	1	Motorcycle....	60.00	Investigation of forest tree diseases in the vicinity of Madison, Wis.	C. J. Humphry.
Do.....	do.....	do.....	1	do.....	60.00	Investigation of forest tree diseases in the vicinity of Albuquerque, N. Mex.	W. H. Long.



*Statement of proposed expenditures for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles in the conduct of the field work of the Department of Agriculture outside of the District of Columbia for the fiscal year ending June 30, 1920, as required by section 5 of the act of July 16, 1914 (38 Stat., 508)—Continued.*

MAINTENANCE, REPAIR, AND OPERATION OF VEHICLES NOW OWNED BY THE DEPARTMENT—Continued.

Bureau, division, or office.	Horse-drawn or motor-propelled.	Appropriation.	Number.	Description.	Amount.	Public purpose for which intended.	Officials and employees by whom used.
Bureau of Plant Industry—Contd.	Motor-propelled.	Sugar plants.....	1	Motorcycle....	\$100.00	Travel to sugar-beet areas in California for the purpose of inspecting diseased sugar-beet fields, gathering diseased material for laboratory study, visiting sugar-beet growers and advising them regarding diseases, and for supervision of experiments being conducted.	Dr. Eubanks Carsner.
Do.....do.....	do.....	Fruit diseases.....	1	do.....	45.00	Travel from East Wareham, Mass., to cranberry bogs in that vicinity in connection with investigational work being conducted.	N. E. Stevens and H. F. Bergman.
Do.....do.....	do.....	Arlington farm.....	1	do.....	60.00	Transporting supervisors to experimental work being conducted and patrol duty on the Arlington farm.	Supervisors and watchmen.
Do.....Horse-drawn...	Western irrigation agriculture.	9	Buggy.....	130.00	Conducting investigational and inspection work on irrigation projects, and transporting employees between Government experimental farms and adjacent towns in connection with the purchase of supplies and equipment for the farms. These experimental farms are located at distances varying from 1 to 7 miles from railroads, and conveyances are absolutely essential to the proper and expeditious conduct of the work.	Superintendents of the San Antonio, Yuma, Belle Fourche, Truckee-Carson, and Huntley experiment farms.	
Do.....do.....	Dry-land agriculture..	6	do.....	90.00	Conducting investigational and inspection work at farms in the vicinity of Government field stations, and transporting employees between the stations and adjacent towns for the purchase of necessary supplies and equipment.	Superintendents and employees of the Akron, Colo.; Scottsbluff, Nebr.; Woodward, Okla., Ardmore, S. Dak., and Lawton, Okla., field stations.	
Do.....do.....	Foreign seed and plant introduction.	1	do.....	25.00	Performing necessary travel between the plant-introduction field station near Chico, Cal., and the town of Chico to arrange for the securing of supplies and equipment needed at the station from time to time in connection with investigations being conducted.	Superintendent, plant-introduction field station, Chico, Cal.	
Do.....do.....	Arlington farm.....	1	do.....	35.00	Superintending the various field operations being conducted on the Arlington farm. The farm contains approximately 400 acres, and vehicles are absolutely essential in order properly to supervise the work being performed. The use of this vehicle, however, is confined to inclement weather.	F. C. Butterfield and assistants.	
Do.....do.....	Dry-land agriculture..	1	Surrey.....	15.00	Conducting investigational and inspection work at farms in the vicinity of Mandan, N. Dak., and transporting employees between the Mandan, N. Dak., field station and the town of Mandan from time to time in connection with the purchase of necessary supplies and equipment.	Superintendent and employees of the Northern Great Plains field station, Mandan, N. Dak.	
Do.....do.....	Cereal investigations..	1	do.....	175.00	Transporting employees between the Crowley, La., field station and the town of Crowley, and conducting investigational work in the surrounding country.	Superintendent of the Crowley, La., field station.	
Do.....do.....	Foreign seed and plant introduction.	1	do.....	25.00	Performing necessary travel between the plant-introduction field station near Rockville, Md., and the town of Rockville to arrange for the securing of supplies and equipment needed at the station from time to time in connection with investigations being conducted.	Superintendent, plant-introduction field station, Rockville, Md.	
Do.....do.....	Arlington Farm.....	2	Runabout....	245.00	Superintending the various field operations being conducted on the Arlington Farm. The farm contains approximately 400 acres and vehicles are absolutely essential in order properly to supervise the work being performed.	E. C. Butterfield and assistants.	
Do.....do.....	Western irrigation agriculture.	1	Road cart....	5.00	Conducting investigational and inspection work on the Truckee-Carson irrigation project, and transporting employees between the Government experiment farm and town to purchase supplies and equipment.	Superintendent and employees of the Truckee-Carson experiment farm.	
Forest Service.....	Motor-propelled.	General expenses, Forest Service.	3	Automobile...	1,476.00	Improvement, land classification, and survey of lands work on national forests in California; forest-fire protection and administration on the Angeles National Forest; and forest-fire protection, administration, inspection, and research work on the Joranada Range Reserve. Forest-fire protection on the Deerlodge, Cabinet, Pend Oreille, Missoula, Kootenai, Lolo, Harnay, Rio Grande, Gila, Datil, Lincoln, Cache, Oregon, Cascade, and Carson National Forests.	Forest officers engaged in land classification, improvement, survey, fire protection, and grazing research work.
Do.....do.....	do.....	do.....	16	Motorcycle....	1,934.00	Forest-fire protection on the Pend Oreille, Kootenai, Jefferson, Flathead, Lolo, Deerlodge, Coeur d'Alene, Cabinet, Blackfeet, Superior, Medicine Bow, Tusayan, Targhee, Shasta, Sierra, Snoqualmie, Cascade, Colville, Chugach, Siskiyou, and Olympic National Forests.	Forest rangers and fire-patrol men.
Do.....do.....	do.....	do.....	30	Railroad speeder.	1,804.00	Forest-fire protection on the Pend Oreille, Kootenai, Jefferson, Flathead, Lolo, Deerlodge, Coeur d'Alene, Cabinet, Blackfeet, Superior, Medicine Bow, Tusayan, Targhee, Shasta, Sierra, Snoqualmie, Cascade, Colville, Chugach, Siskiyou, and Olympic National Forests.	Do.
Bureau of Chemistry ..do.....	Citrus by-products investigations.	1	Automobile...	400.00	Performing travel to citrus groves in the State of California in connection with investigations being conducted. These groves for the most part are inaccessible by railroad, and in many instances where railroad facilities are available the time of trains is such that not infrequently an entire day is consumed in performing two or three hours' work. The economy effected through the use of a motor vehicle is therefore obvious. This machine is also used in the collection of samples and the transportation of apparatus used in the citrus work.	E. M. Chace and assistant.	
Do.....do.....	Enforcement of the food and drugs act.	1	Motorcycle....	100.00	Inspecting canneries and collecting samples at points inaccessible by railroad in connection with the milk inspection work being conducted in the Northeastern States.	Employees of the microbiological laboratory of the Bureau of Chemistry.	
Bureau of Entomology.....do.....	Cereal and forage insects.	1	Automobile...	400.00	Collecting data and performing investigational work in the vicinity of Wichita, Kans.	J. R. Horton.	



*Statement of proposed expenditures for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles in the conduct of the field work of the Department of Agriculture outside of the District of Columbia for the fiscal year ending June 30, 1920, as required by section 5 of the act of July 16, 1914 (38 Stat. 508)—Continued.*

MAINTENANCE, REPAIR, AND OPERATION OF VEHICLES NOW OWNED BY THE DEPARTMENT—Continued.

Bureau, division, or office.	Horse-drawn or motor-propelled.	Appropriation.	Number.	Description.	Amount.	Public purpose for which intended.	Officials and employees by whom used.
Bureau of Entomology—Contd.	Motor-propelled.	Southern field-crop insects.	1	Automobile ..	\$450.00	Conducting southern field-crop insect investigations, and inspecting experimental work being carried on in the vicinity of Clarksville, Tenn. Inspection work at plantations near Tallulah, La., where experiments are being conducted in connection with the control and eradication of southern field-crop insects.	A. C. Morgan.
Do.....do.....	do.....do.....	do.....do.....	1	.....do.....	650.00	Inspection work at plantations near Tallulah, La., where experiments are being conducted in connection with the control and eradication of southern field-crop insects.	E. R. Coad.
Do.....do.....	do.....do.....	Miscellaneous insects..	1	.....do.....	150.00	Investigational work in the vicinity of Dallas, Tex., in connection with insects affecting the health of man and domestic animals.	F. C. Bishopp.
Do.....do.....	do.....do.....	Deciduous fruit insects	1	.....do.....	225.00	Pecan-insect investigations in the vicinity of Monticello, Fla.	John B. Gill.
Do.....do.....	do.....do.....	Preventing spread of moths.	10	.....do.....	6,000.00	Supervising and directing laboratory, scouting, quarantining, and silvicultural work, colonizing parasites, and making immediate inspection of perishable nursery stock at nurseries located in the infested areas upon telegraphic or telephone requests.	Principal assistants in charge of investigations, and scientific assistants, foremen, and scouts acting under their supervision and direction.
Do.....do.....	do.....do.....	Cereal and forage insects.	1	Motorcycle....	50.00	Field inspection work in the vicinity of Lafayette, Ind., in connection with the white grub and Hessian fly investigations that are being conducted.	C. F. Turner.
Do.....do.....	do.....do.....	do.....do.....	1	.....do.....	50.00	Conducting investigations of insects affecting clover seed, alfalfa, etc., in the vicinity of Forest Grove, Oreg., where railroad facilities are unusually poor.	C. W. Creel.
Do.....do.....	do.....do.....	do.....do.....	1	.....do.....	25.00	Collecting data, carrying small supplies, and performing inspection work at points in the vicinity of Knoxville, Tenn., inaccessible by other means of transportation.	G. G. Ainslie.
Do.....do.....	do.....do.....	do.....do.....	2	.....do.....	100.00	Conducting investigational and inspection work at ranches located near Tempe, Ariz.	V. L. Wildermuth and D. J. Caffrey.
Do.....do.....	do.....do.....	do.....do.....	1	.....do.....	75.00	Alfalfa-insect investigations in the vicinity of Berkeley, Cal.	C. M. Packard.
Do.....do.....	do.....do.....	Miscellaneous insects..	1	.....do.....	50.00	Investigational work in the vicinity of Dallas, Tex., in connection with insects affecting the health of man and domestic animals.	Oscar Pool.
Do.....do.....	do.....do.....	Truck-crop insects....	1	.....do.....	50.00	Conducting investigations in the vicinity of Spreckels, Cal., in connection with sugar-beet insects, with special reference to the curly-top leaf hopper.	C. F. Stahl.
Do.....do.....	do.....do.....	do.....do.....	1	.....do.....	50.00	Inspecting experimental and demonstration fields near Kingsville, Tex., where preliminary work leading to the control of the sweet-potato weevil is being conducted.	F. A. Johnson.
Do.....do.....	do.....do.....	do.....do.....	1	.....do.....	100.00	Inspecting experimental fields near Alhambra, Cal., which are undergoing treatment against potato and other truck-crop insects.	R. E. Campbell.
Do.....do.....	do.....do.....	do.....do.....	1	.....do.....	50.00	Conducting investigations of truck-crop insects in the Mississippi Valley, near Muscatine, Iowa, and for transferring equipment between fields where experiments are being conducted.	F. M. Wadley.
Do.....do.....	do.....do.....	Deciduous fruit insects.	1	.....do.....	50.00	Studying orchard-spraying machinery and insecticides at points near Benton Harbor, Mich.	F. L. Simanton.
Do.....do.....	do.....do.....	Mediterranean fruit fly.	1	.....do.....	100.00	Grape-insect investigations near Cleveland, Ohio.	H. G. Ingerson.
Do.....do.....	do.....do.....	Tropical and subtropical fruit insects.	1	.....do.....	100.00	Investigations of the Mediterranean fruit fly in Honolulu, Hawaii.	H. F. Willard.
Do.....do.....	do.....do.....	Preventing spread of moths.	3	.....do.....	300.00	Collecting specimens and inspecting experimental work being carried on in the vicinity of Miami, Fla., in connection with the control and eradication of tropical and subtropical fruit insects.	G. F. Moznette.
States Relations Service.	do.....do.....	Porto Rico experiment station.	2	Automobile...	600.00	Collecting insects, parasitized material, and food plants for use in experimental work; determining spread of parasites and natural enemies in the field; scouting new territory, and directing operations of field parties engaged in scouting and extermination work.	Principal assistants in charge of investigations, and scientific assistants, foremen, and scouts acting under their supervision and direction.
Bureau of Public Roads.	do.....do.....	Investigating road building and maintenance.	2	.....do.....	1,200.00	Transportation of station specialists having supervision of cooperative work being conducted in Porto Rico.	Agronomist in charge of Porto Rico experiment station and assistants.
Do.....do.....	do.....do.....	do.....do.....	1	.....do.....	480.00	Supervision and inspection of work in progress demanding the close and more or less continuous presence of a representative of the Bureau of Public Roads. These machines are used only where the length of a construction project is so great as to make it practically impossible for an engineer to inspect the work expeditiously by any other means.	Highway engineers supervising construction work.
Do.....do.....	do.....do.....	Farm irrigation.....	1	.....do.....	600.00	Supervision of maintenance work in progress demanding the close and more or less continuous presence of a representative of the Bureau of Public Roads. The length of maintenance projects renders it impossible to inspect the work expeditiously by any other means.	Irrigation engineers supervising irrigation projects.
Do.....do.....	do.....do.....	Road material.....	1	.....do.....	480.00	Supervision and inspection of irrigation projects demanding the close and more or less continuous presence of a representative of the Bureau of Public Roads. This machine is used only where it is impracticable for the engineers to inspect the work expeditiously by other means.	Chemists and testing engineers supervising experimental work.
Do.....do.....	do.....do.....	do.....do.....	1	.....do.....	600.00	Supervision and inspection of experimental roads being constructed in the vicinity of Washington, and field tests in connection with concrete and soil pressure investigations.	Highway engineers supervising construction work and employees assigned to laboratory at the Arlington farm.



*Statement of proposed expenditures for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles in the conduct of the field work of the Department of Agriculture outside of the District of Columbia for the fiscal year ending June 30, 1920, as required by section 5 of the act of July 16, 1914 (38 Stat., 508)—Continued.*

MAINTENANCE, REPAIR, AND OPERATION OF VEHICLES NOW OWNED BY THE DEPARTMENT—Continued.

Bureau, division, or office.	Horse-drawn or motor-propelled.	Appropriation.	Number.	Description.	Amount.	Public purpose for which intended.	Officials and employees by whom used.
Bureau of Markets	Motor-propelled.	Market news service on fruits and vegetables.	1	Automobile...	\$300.00	Transporting employees engaged in inspection work to various railroad yards in the city of Chicago.	Local representatives of the Bureau of Markets at Chicago.
Do.....	do.....	.....do.....	2	.....do.....	600.00	Transporting employees between widely scattered markets in Philadelphia and Detroit in order to secure quickly accurate price quotations, and thus hasten the release of market reports.	Local representatives of the Bureau of Markets at Philadelphia and Detroit.
Do.....	do.....	Market reports on live stock and meats.	8	.....do.....	2,400.00	Transporting employees to wholesale distributing centers in connection with the collection of information on the meat trade in Los Angeles and San Francisco; inspecting stockyards and feeding stations in Kansas City, and gathering information relative to the number of cattle and sheep in the principal grazing districts.	Local representatives of the Bureau of Markets at Los Angeles, San Francisco, and Kansas City; field representatives in principal grazing districts of Colorado, Kansas, Oklahoma, Texas, and Virginia.
Do.....	do.....	Enforcement of the grain standards act.	1	.....do.....	300.00	Transporting employees engaged in grain inspection work between railroad yards, elevators, warehouses, etc., in the city of Chicago.	Local representatives of the Bureau of Markets at Chicago.
Federal Horticultural Board	do.....	Suppressing spread of pink bollworm of cotton.	1	.....do.....	600.00	For transporting plant quarantine inspectors from place to place in cotton-free areas in Texas for the purpose of making surveys to determine the existence of the pink bollworm of cotton and to destroy any voluntary cotton which may be found.	Official in charge of pink bollworm eradication work and plant quarantine inspectors.
Total.....					49,949.00		

TO BE PURCHASED DURING THE FISCAL YEAR 1920.

Bureau, division, or office.	Horse-drawn or motor-propelled.	Appropriation.	For purchase.						Public purpose for which intended.	Officials and employees by whom used.		
			New vehicles.			Vehicles to be exchanged.						
			Number.	Description.	Gross cost.	Number.	Description.	Allowance (estimated).				
Bureau of Animal Industry	Motor-propelled.	Meat inspection.	3	Automobile...	\$1,800				\$1,800	\$1,650	Transporting employees engaged in the inspection of meats from place to place at stations where the meat-inspection service covers a large territory.	Meat inspectors at Chicago, Kansas City, and Bisbee, Ariz.
Do.....	do.....	Inspection and quarantine.	3	.....do.....	1,800				1,800	1,650	Transporting employees to farms and ranches to supervise the dipping of cattle and sheep in connection with the eradication of scabies.	Veterinary inspectors at Denver, Colo.; Amarillo, Tex.; and Roswell, N. Mex.
Do.....	do.....	Eradicating hog cholera.	8	.....do.....	4,800				4,800	4,400	Transporting veterinarians from farm to farm investigating outbreaks of hog cholera, and demonstrating methods for its control and eradication.	Veterinary inspectors at Columbus, Ohio; Des Moines, Iowa; Fort Worth, Tex.; Jefferson City, Mo.; Lincoln, Nebr.; Little Rock, Ark.; Oklahoma City, Okla.; and Topeka, Kans.
Do.....	do.....	Eradicating cattle ticks.	1	Motorcycle...	300				300	100	Transporting employee from farm to farm to supervise the dipping and transportation of cattle in connection with the eradication of cattle ticks.	Inspector at Jacksonville, Fla.
Forest Service	do.....	General expenses, Forest Service.	1	.....do.....	375				375	50	Forest-fire protection on the Pend Oreille National Forest.	Forest rangers and patrolmen.
Do.....	do.....	do.....	1	.....do.....	375				375	54	Forest-fire protection on the Coeur d'Alene National Forest.	Do.
Do.....	do.....	do.....	1	Motorcycle with side van.	450				450	75	Forest-fire protection on the Santa Fe National Forest.	Do.
Do.....	do.....	do.....	1	.....do.....	450				450	110	Forest-fire protection on the Sitgreaves National Forest.	Do.
Do.....	do.....	do.....	1	.....do.....	450				450	110	Forest-fire protection on the Coconino National Forest.	Do.
Do.....	do.....	do.....	1	.....do.....	450				450	59	Forest-fire protection on the Shenandoah National Forest.	Do.
Do.....	do.....	do.....	1	Railroad speeder.	250				250	43	Forest-fire protection on the Deerlodge National Forest.	Do.
Do.....	do.....	do.....	1	.....do.....	250				250	43	Forest-fire protection on the Coeur d'Alene National Forest.	Do.
Do.....	do.....	do.....	1	.....do.....	250				250	41	Forest-fire protection on the Targhee National Forest.	Do.



*Statement of proposed expenditures for the purchase, maintenance, repair, and operation of motor-propelled and horse-drawn passenger-carrying vehicles in the conduct of the field work of the Department of Agriculture outside of the District of Columbia for the fiscal year ending June 30, 1920, as required by section 5 of the act of July 16, 1914 (38 Stat., 508)—Continued.*

TO BE PURCHASED DURING THE FISCAL YEAR 1920—Continued.

Bureau, division, or office.	Horse-drawn or motor-propelled.	Appropriation.	For purchase.						Net cost.	For maintenance, repair, and operation.	Public purpose for which intended.	Officials and employees by whom used.				
			New vehicles.			Vehicles to be exchanged										
			Number.	Description.	Gross cost.	Number.	Description.	Allowance (estimated).								
Bureau of Entomology.	Motor propelled.	Truck-crop insects.	1	Automobile...	\$575	.....	.....	.....	\$575	\$300	For use at Macclenny, Fla., in connection with the sweet-potato weevil campaign which is being conducted in the Baker-Charlton area of Florida and Georgia. The work thus far has been considerably hampered by reason of the inadequate railroad and livery facilities. The force of 10 men having headquarters at Macclenny are continually called upon to make trips to points inaccessible by rail in connection with the farm-to-farm scouting and survey work, and a means of transportation must be provided.	B. L. Boyden and assistants.				
Bureau of Biological Survey.	....do.....	Maintenance of mammal and bird reservations.	1	Motorcycle....	400	1	Motorcycle...	\$50	350	120	Patrol duty on the Malheur Lake bird reservation.	Warden in charge.				
Bureau of Public Roads.	....do.....	Road building and maintenance.	1	Automobile...	600	.....	.....	.....	600	400	Personal supervision and inspection of work in progress demanding the close and more or less continuous presence of a representative of the Bureau of Public Roads. Automobiles are used only where the length of a construction project is so great as to make it practically impossible for an engineer to inspect the work expeditiously by any other means.	Highway engineers supervising construction work.				
Bureau of Markets.	....do.....	City market service.	4	Motorcycle....	800	.....	.....	.....	800	400	Transporting employees to local markets, commission districts, and newspaper offices. These employees are engaged in reporting local market conditions in New York, Philadelphia, Chicago, and St. Louis, and a quick means of transportation must necessarily be employed in order that information concerning market conditions may be expeditiously collected and disseminated so as to be of the greatest value.	Agents in charge of the local market reporting service of the Bureau of Markets at New York, Philadelphia, Chicago, and St. Louis.				
Total.....									14,325	9,605						

SUMMARY.

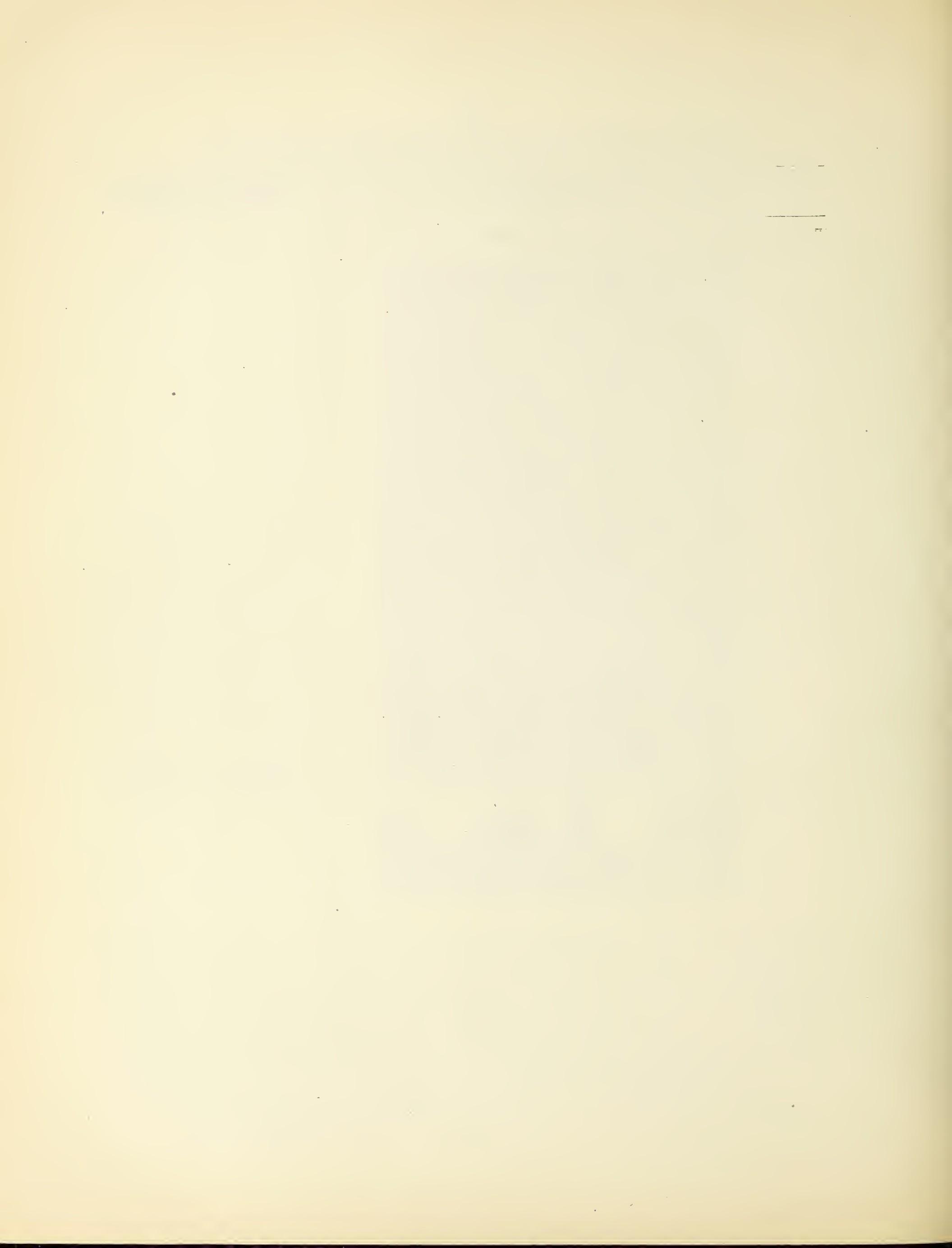
Bureau, division, or office.	Motor-propelled vehicles.			Horse-drawn vehicles.			Totals.		
	For purchase.	For maintenance, repair, and operation.	Total.	For purchase.	For maintenance, repair, and operation.	Total.	Total for purchase.	Total for maintenance, repair, and operation.	Total for bureau, division, or office.
Office of Farm Management.		\$120	\$120					\$120	\$120
Weather Bureau.		60	60					60	60
Bureau of Animal Industry.	\$8,700	26,265	34,965		\$420	\$420	\$8,700	26,635	35,385
Bureau of Plant Industry.		7,140	7,140		745	745		7,885	
Forest Service.	3,300	5,799	9,099				3,300	5,799	9,099
Bureau of Chemistry.		500	500					500	500
Bureau of Entomology.	575	9,425	10,000				575	9,425	10,000
Bureau of Biological Survey.	350	120	470				350	120	470
States Relations Service.		600	600					600	600
Bureau of Public Roads.	600	3,760	4,360				600	3,760	4,360
Bureau of Markets.	800	4,000	4,800				800	4,000	4,800
Federal Horticultural Board.		600	600					600	600
Total.....	14,325	58,389	72,714		1,165	1,165	14,325	59,554	73,879



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Eradication of Foot-and-Mouth and Other Contagious Diseases of Animals—</i>		
(6) In case of an emergency arising out of the existence of foot-and-mouth disease, rinderpest, contagious pleuropneumonia, or other contagious or infectious disease of animals which, in the opinion of the Secretary of Agriculture, threatens the live-stock industry of the country, he may expend in the city of Washington or elsewhere, out of any money in the Treasury not otherwise appropriated, the sum of \$1,000,000, which sum is hereby appropriated, or so much thereof as he determines to be necessary, in the arrest and eradication of any such disease, including the payment of claims growing out of past and future purchases and destruction, in cooperation with the States, of animals affected by or exposed to, or of materials contaminated by or exposed to, any such disease, wherever found and irrespective of ownership, under like or substantially similar circumstances, when such owner has complied with all lawful quarantine regulations: <i>Provided</i> , That the payment for animals hereafter purchased may be made on appraisement based on the meat, dairy, or breeding value, but in case of appraisement based on breeding value no appraisement of any animal shall exceed three times its meat or dairy value, and except in case of an extraordinary emergency, to be determined by the Secretary of Agriculture, the payment by the United States Government for any animal shall not exceed one-half of any such appraisements: <i>Provided further</i> , That so much of the appropriation of \$2,500,000 made by the agricultural appropriation Act of March fourth, nineteen hundred and fifteen, for the fiscal year ending June thirtieth, nineteen hundred and sixteen, for the arrest and eradication of foot-and-mouth disease, rinderpest, contagious pleuropneumonia, or other contagious or infectious disease of animals, as remains unexpended at the close of the fiscal year nineteen hundred and <del>eighteen</del> nineteen, is hereby reappropriated and made available for expenditure during the fiscal year ending June thirtieth, nineteen hundred and <del>nineteen</del> twenty, for the objects mentioned in said appropriation Act, including necessary investigations to determine whether said diseases have been completely eradicated in districts where they previously existed ( <i>acts Mar. 4, 1915, vol. 38, p. 1115, sec. 1; Oct. 1, 1918, vol. 40, p. 1006, sec. 1</i> )-----	\$1,000,000.00	\$1,000,000.00
Deficiency for 1915..... \$2,500,000   Estimate for 1917..... \$2,500,000		
Appropriation for 1916..... 2,500,000   Estimate for 1918..... 1,250,000		
Appropriation for 1917..... 1,250,000   Estimate for 1919..... 1,000,000		
Appropriation for 1918..... 1,000,000   Estimate for 1920..... 1,000,000		
Appropriation for 1919..... 1,000,000   Estimate for 1920..... 1,000,000		

NOTE.—There is no change in the amount of the above item, but the language has been changed so as to make available for expenditure during the fiscal year 1920 any unexpended balance of the \$2,500,000 provided for this purpose in the agricultural appropriation act for the fiscal year 1916.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<i>Eradication of Pink Bollworm—</i>		
(7) To enable the Secretary of Agriculture to meet the emergency caused by the existence of the pink bollworm of cotton in Mexico, and to prevent the establishment of such insect in the United States by the employment of all means necessary, including rent outside of the District of Columbia and the employment of persons and means in the city of Washington and elsewhere, as follows ( <i>act Oct. 1, 1918, vol. 40, pp. 1006–1008, sec. 1</i> ):		
To prevent the movement of cotton and cotton seed from Mexico into the United States, including the regulation of the entry into the United States of railway cars and other vehicles, and freight, express, baggage, or other materials from Mexico, and the inspection, cleaning, and disinfection thereof, [§\$50,000] \$148,560, which shall be immediately available; any moneys received in payment of charges fixed by the Secretary of Agriculture on account of such cleaning and disinfection at plants constructed therefor out of any appropriation made on account of the pink bollworm of cotton to be covered into the Treasury as miscellaneous receipts ( <i>same act</i> ) -----	\$148,560.00	
To make surveys to determine the actual distribution of the pink bollworm in Mexico and to exterminate local infestations in Mexico near the border of the United States, in cooperation with the Mexican Government or local Mexican authorities ( <i>same act</i> ) -----	25,000.00	
To investigate in Mexico or elsewhere the pink bollworm as a basis for control measures ( <i>same act</i> ) -----	25,000.00	
To conduct surveys and inspections in Texas or in any other State to detect any infestation and to conduct such control measures, including the establishment of cotton-free areas, in cooperation with the State of Texas or other States concerned, as may be necessary to stamp out such infestation, to establish in cooperation with the States concerned a zone or zones free from cotton culture on or near the border of any State or States adjacent to Mexico, and to cooperate with the Mexican Government or local Mexican authorities, or otherwise, by undertaking in Mexico such measures for the extermination of the pink bollworm of cotton as shall be determined to be practicable from surveys showing its distribution, [§\$400,000] \$397,240: <i>Provided</i> , That no part of the money herein appropriated shall be used to pay the cost or value of crops or other property injured or destroyed ( <i>same act</i> ) -----	397,240.00	
	\$595,800.00	\$500,000.00
NOTE.—There is an apparent increase in the above item of \$95,800, but taking into consideration the transfer to the statutory roll of the Federal Horticultural Board of 1 clerk at \$1,560, 1 clerk at \$1,440, and 1 clerk of class 1, amounting to \$4,200, the actual increase is \$100,000. This additional amount will be necessary to cover the cost of potassium cyanide and sulphuric acid required for the generation of hydrocyanic-acid gas for use in the disinfection of freight, express, baggage, and other materials entering the United States from Mexico in special temporary fumigation houses now being constructed at five points on the Texas-Mexico border. During the fiscal year 1918 approximately 16,000 cars crossed the Mexican border which required fumigation. On this basis the following estimate is made:		
For cyanide of potassium, at \$4.03 per car.....	\$64,480	
For sulphuric acid, at \$1.09 per car.....	17,440	
For labor, electricity, water, etc., at \$1.13 per car.....	18,080	
	<hr/> 100,000	



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.

*Eradication of Pink Bollworm—Continued.*

In order to avoid, if possible, the necessity of submitting a deficiency appropriation for this work during the current fiscal year, the item of \$148,560 should be made immediately available.

The charge to be fixed for necessary cleaning and disinfection to be done under this item will fully cover the cost to the Government of such treatment, the moneys thus received to be covered into the Treasury as miscellaneous receipts.

*Pink bollworm border inspection.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Entomological inspector.....per annum..	\$2,460.00	..	1(part time, temp.)
Scientific assistant.....do.....	2,040.00	1	1(part time)
Quarantine inspector.....do.....	1,980.00	1	1(part time)
Plant quarantine inspectors.....do.....	1,800.00	3 (2 new)	1(part time)
Plant quarantine inspector.....do.....	1,740.00	1	1(part time)
Plant quarantine inspectors.....do.....	1,680.00	6 (2 new)	4(part time)
Plant quarantine inspector.....do.....	1,490.00	1	1(part time)
Clerk†.....do.....	1,440.00	..	1(part time)
Clerks.....do.....	1,440.00	2 (new)	..
Wages:			
Miscellaneous temporary labor, \$3 to \$1.25.....per diem.....		10(part time)	8 (temp.)
		25	19
Salaries.....		\$24,080.00	\$10,633.34
Wages.....		1,000.00	210.98
Other objects of expenditure:			
Traveling expenses.....		10,000.00	13,963.80
Equipment and material.....		112,080.00	392.05
Miscellaneous items.....		1,400.00	2,223.30
Construction work.....			a38,312.93
Total.....		148,560.00	65,736.40

<sup>a</sup> This construction work consisted of the following temporary buildings:  
1 fumigating house, for wagons and motor trucks, at Del Rio, Tex., containing  
8,645 cubic feet, at 14½ cents per cubic foot.....\$1,261.93  
1 fumigating house, for railway cars, at Brownsville, Tex., 72,966 cubic feet, about  
12½ cents per cubic foot.....9,120.00  
1 fumigating house, for railway cars, at Laredo, Tex., 165,306 cubic feet, at about  
8½ cents per cubic foot.....14,100.00  
1 fumigating house, for railway cars, at Eagle Pass, Tex., 92,596 cubic feet, at  
about 11½ cents per cubic foot.....10,550.00  
1 fumigating house, for railway cars, at El Paso, Tex., 19,008 cubic feet, at about  
17½ cents per cubic foot.....3,281.00

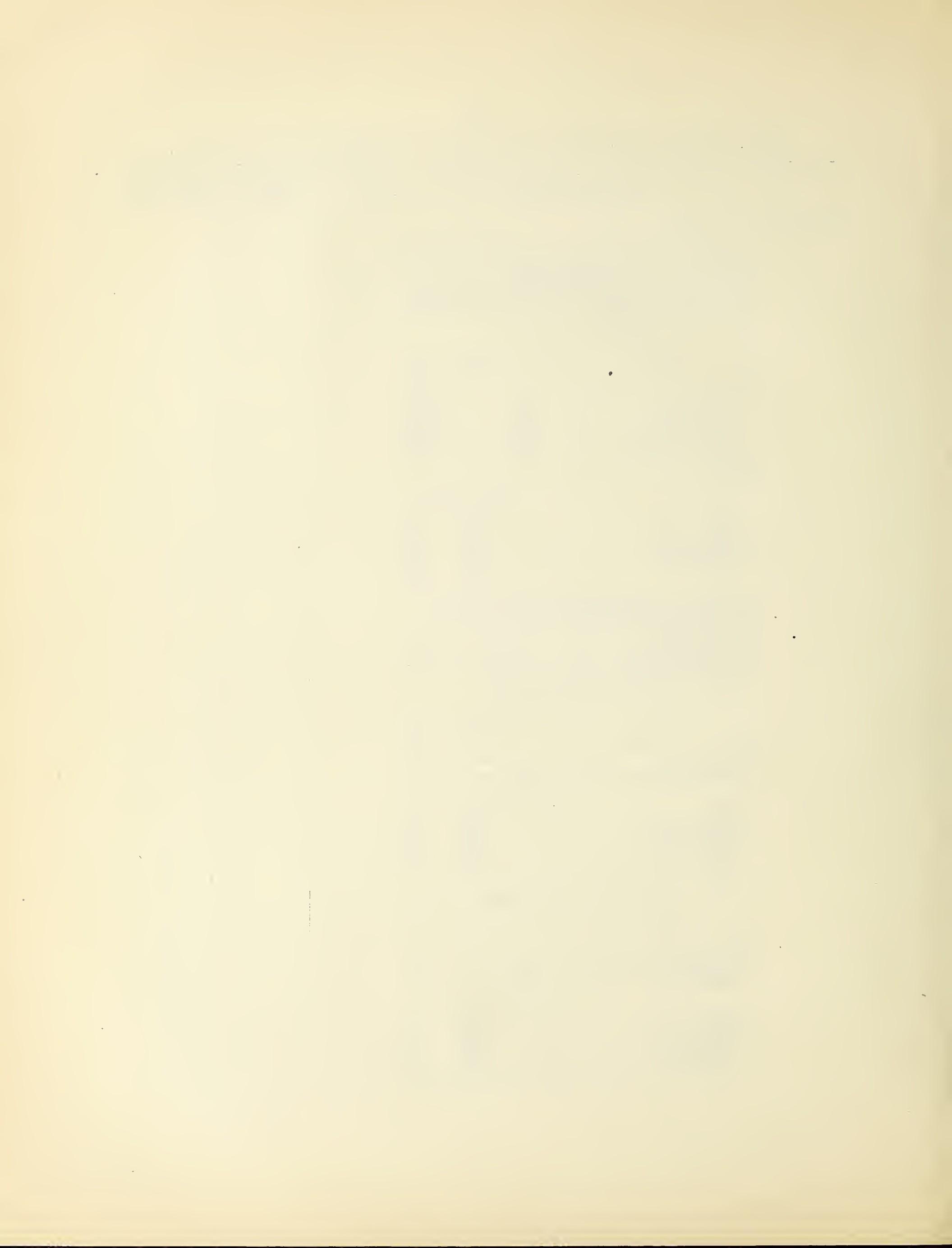
† Recommended for transfer to statutory roll in estimates for 1920.

*Pink bollworm cooperation with Mexico.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Entomological assistant.....per annum..	\$3,180.00	1	1(part time)
Plant quarantine inspectors.....do.....	1,800.00	5 (new)	..
		6	1
Salaries.....		\$12,180.00	\$1,470.00
Other objects of expenditure:			
Stationery.....		400.00	75.00
Traveling expenses.....		10,000.00	1,913.50
Equipment and material.....		500.00	48.46
Telephone and telegraph service.....		400.00	102.21
Miscellaneous items.....		1,520.00	831.77
Total.....		25,000.00	4,440.94

*Pink bollworm research investigations.*

Employees.	Rate.	Estimated, 1920.	Expended, 1918.
		Number.	Number.
Salaries:			
Expert in charge of field experiments.....per annum..	\$2,500.00	..	1(temp.)
Entomological assistant.....do.....	1,920.00	1	1
Scientific assistants.....do.....	1,720.00	4	1
		5	3
Salaries.....		\$8,800.00	\$2,821.92
Other objects of expenditure:			
Stationery.....		500.00	150.00
Traveling expenses.....		3,000.00	636.67
Equipment and material.....		2,500.00	460.74
Miscellaneous items.....		10,200.00	444.98
Total.....		25,000.00	4,514.31



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.		
<i>Eradication of Pink Bollworm—Continued.</i>				
<i>Pink bollworm eradication.</i>				
	Employees.	Rate.	Estimated, 1920.	Expended, 1918.
			Number.	Number.
Salaries:				
Specialist in control of pink bollworm.....per annum..	\$3,000.00	1	1	
Quarantine inspector.....do.....	1,500.00	..	1 (temp.)	
Plant quarantine inspector.....do.....	2,520.00	1	1	
Plant quarantine inspector.....do.....	2,000.00	..	1 (temp.)	
Plant quarantine inspector.....do.....	1,800.00	3	3 (2 temp.)	
Plant quarantine inspector.....do.....	1,720.00	1	1	
Plant quarantine inspector.....do.....	1,600.00	1	1	
Plant quarantine inspector.....do.....	1,500.00	2	4 (2 temp.)	
Plant quarantine inspector.....do.....	1,400.00	8 (1 new)	7 (1 pt. time)	
Plant quarantine inspector.....do.....	1,200.00	8	8 (3 temp; 1 pt. time)	
Scientific assistant.....do.....	1,500.00	..	1 (temp.)	
Scientific assistant.....do.....	1,400.00	..	2 (temp.)	
Scientific assistant.....do.....	1,200.00	..	4 (temp.)	
Field assistant.....do.....	2,100.00	..	1 (temp.)	
Field assistant.....do.....	1,800.00	..	1 (temp.)	
Field assistant.....do.....	1,500.00	..	1 (temp.)	
Field assistant.....do.....	1,320.00	..	1 (temp.)	
Field assistant.....do.....	1,200.00	2	2	
Plant quarantine inspectors, field aids, and field assistants, \$900 to \$720.....do.....		16 (9 temp.; 3 new)	20 (8 temp.)	
Entomological inspector.....do.....	1,600.00	..	1 (temp.)	
Entomological inspector.....do.....	1,400.00	..	2 (temp.)	
Entomological assistant.....do.....	2,300.00	..	1 (temp.)	
Clerk†.....do.....	1,560.00	..	1	
Clerk.....do.....	1,260.00	..	1 (temp.)	
Stenographer and typewriter†.....do.....	1,200.00	1 (temp.)	3 (1 temp.)	
Stenographer and typewriter.....do.....	1,080.00	1	1	
Stenographer and typewriter.....do.....	1,000.00	..	1 (temp.)	
Wages:				
Miscellaneous temporary labor, \$3 to \$1.25.....per diem.....	440	173		
		485	245	
Salaries.....	\$51,040.00	\$28,962.49		
Wages.....	220,200.00	86,539.19		
Other objects of expenditure:				
Stationery.....	2,000.00	940.67		
Traveling expenses.....	95,000.00	51,165.38		
Equipment and materials.....	5,000.00	2,637.17		
Miscellaneous items.....	24,000.00	9,859.96		
Total.....	397,240.00	180,104.86		

† Recommended for transfer to statutory roll in estimates for 1920.

Appropriations for 1917.....	\$50,000	Estimates for 1918.....	\$250,000
Appropriations for 1918.....	250,000	Estimates for 1919.....	500,000
Appropriations for 1919.....	500,000	Estimates for 1920.....	595,800

- (8) [That any moneys heretofore or hereafter received by the United States for or in connection with the disposition of nitrate of soda pursuant to section twenty-seven of the Act entitled "An Act to provide further for the national security and defense by encouraging the production, conserving the supply, and controlling the distribution of food products and fuel," approved August tenth, nineteen hundred and seventeen (Public, Numbered Forty-one, Sixty-fifth Congress), are hereby appropriated and made immediately available as a revolving fund to be used at the discretion of the President for further carrying out the purposes of said section and extending its operation throughout the period of the existing war as ascertained and proclaimed in accordance with section twenty-four of said Act: *Provided*, That nothing herein shall be construed as prohibiting the sale or disposal of any nitrates remaining on hand at the time of, or contracted for previous to, such termination.]

NOTE.—The above paragraph has been omitted, as it is continuing legislation until the date of the termination of the war, as proclaimed by the President.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
(9) To enable the Secretary of Agriculture to cooperate with individuals, firms, or corporations, owning or operating plants for drying or dehydration of vegetables, fruits, and other perishable edible products to determine the best means and processes of dehydration and to disseminate information as to the value and suitability of such products for human food, \$250,000, which sum shall be immediately available: <i>Provided</i> , That the Secretary of Agriculture is hereby authorized, if the President shall determine it to be necessary, to use all or any part of this appropriation for the establishment and operation of a plant or plants for the dehydration of vegetables, fruits, and other perishable edible products in any place or places in the United States for the purpose of supplying food for the Army and Navy, and the money received from the operation of any such plant or plants shall constitute a revolving fund until June thirtieth, nineteen hundred and nineteen.]	-----	\$250,000.00
NOTE.—This item has been transferred to the Bureau of Chemistry section.		
(10) For applying such methods of eradication or control of the sweet-potato weevil as in the judgment of the Secretary of Agriculture may be necessary, including the payment of such expenses and employment of such persons and means in the city of Washington and elsewhere, in cooperation with such authorities of the States concerned, organizations, or individuals as he may deem necessary to accomplish such purposes, \$20,000, which shall be immediately available, and in the discretion of the Secretary of Agriculture no expenditures shall be made for these purposes until a sum or sums at least equal to such expenditures shall have been appropriated, subscribed, or contributed by State, county, or local authorities or by individuals or organizations for the accomplishment of such purposes: <i>Provided</i> , That no part of the money herein appropriated shall be used to pay the cost or value of sweet potatoes, sweet-potato plants, or other property injured or destroyed.]	-----	20,000.00
NOTE.—This item has been transferred to the Bureau of Entomology section and included with the item for truck crop and stored products insect investigations.		
(11) That section six of the Act entitled "An Act defining butter, also imposing a tax upon and regulating the manufacture, sale, importation, and exportation of oleomargarine," approved August second, eighteen hundred and eighty-six, be amended so as to read as follows: "Sec. 6. That all oleomargarine shall be packed by the manufacturer thereof in firkins, tubs, or other wooden or paper packages not before used for that purpose, each containing not less than ten pounds, and marked, stamped, and branded as the Commissioner of Internal Revenue, with the approval of the Secretary of the Treasury, shall prescribe; and all sales made by the manufacturers of oleomargarine, and wholesale dealers in oleomargarine shall be in original stamped packages.		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
<p>“Retail dealers in oleomargarine must sell only from original stamped packages, in quantities not exceeding ten pounds, and shall pack the oleomargarine sold by them in suitable wooden or paper packages, which shall be marked and branded as the Commissioner of Internal Revenue, with the approval of the Secretary of the Treasury, shall prescribe.</p> <p>“Every person who knowingly sells or offers for sale, or delivers or offers to deliver, any oleomargarine in any other form than in new wooden or paper packages as above described, or who packs in any package any oleomargarine in any manner contrary to law, or who falsely brands any packages or affixes a stamp on any package denoting a less amount of tax than that required by law, shall be fined for each offense not more than \$1,000, and be imprisoned not more than two years.”】</p>		
NOTE.—The above paragraph has been omitted, as it is permanent legislation.		
(12) <i>That hereafter the Secretary of Agriculture may, in his discretion and under such conditions as he may prescribe, supply to any municipality or public institution not more than one American bison from any surplus which may exist in any herd under the control of the Department of Agriculture; and, in order to aid in the propagation of the species, animals may be loaned to or exchanged with other owners of American bison.</i>		
NOTE.—Some of the herds of American bison under the control of the department already contain a surplus of bulls. The purpose of this proposed legislation is to provide an opportunity for municipalities and public parks to secure without charge a specimen of historic and educational value and to enable the Government, municipalities, public parks, and other owners of American bison to improve the strain of their herds and to avoid inbreeding through the loan or exchange of animals.		
(13) Whenever <del>hereafter</del> during the fiscal year ending June thirtieth nineteen hundred and nineteen, the Secretary of Agriculture shall find that the expenses of travel can be reduced thereby, he may, in lieu of actual traveling expenses, under such regulations as he may prescribe, authorize the payment of <del>not to exceed 2 cents per mile for a motorcycle or 6 cents per mile for an automobile,</del> such rates per mile for motorcycles and automobiles used for necessary travel on official business of the Department of Agriculture as he shall determine to be necessary to reimburse the owner of such motorcycle or automobile for the operating expenses thereof <del>: Provided, That there shall be no payment of mileage for the use or travel of motorcycle or automobile furnished or owned by or maintained by the Government of the United States</del> (act Oct. 1, 1918, vol. 40, p. 990, sec. 1).		
NOTE.—Since the above paragraph is applicable to the entire department, it has been transferred from the Forest Service section (see item 364) and included in the miscellaneous provisions of these estimates.		
The language of the provision, as contained in the act for 1919, limits its operation to that year, but, as the method of reimbursing employees for the use of personally owned motorcycles and automobiles in conducting the field work of the department has proven to be expedient and distinctly economical, in that the Government secures the full		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
use of the vehicles without the initial outlay for their purchase and subsequent expenditures for repairs and replacement, to say nothing of depreciation, it is highly desirable that the authority be continued. Therefore, in order to obviate the necessity of repeating the language from year to year, it is recommended that the words "during the fiscal year ending June 30, 1919" be omitted, and the word "hereafter" be substituted.		
It is also recommended that the specific rates per mile for motorcycles and automobiles, viz., 2 and 6 cents, respectively, be omitted, and language substituted which will allow the Secretary of Agriculture more latitude in fixing mileage rates. The rates established for the present fiscal year were recommended by the department a year ago, at which time it was believed that they would be entirely adequate to cover actual operating expenses. Conditions, however, have completely changed during the past year and the rates authorized in the present provision will not reimburse employees for such expenses.		
The records of the department indicate that the cost of operating Government-owned automobiles varies from 6 to 12 cents per mile for light cars, and from 8 to 16 cents per mile for heavier cars. These variations in rates are due almost entirely to local factors, such as the difference in the cost of supplies in the various sections of the country and road conditions in the locality where the car is being used.		
Many employees of the department feel unable to pay from their personal funds the difference between the established rates and the actual cost of operation, and, for this reason, a number have disposed of their cars, while others are not inclined to continue to use their vehicles in official work. Unless this condition is remedied, the field work of the department will be greatly impeded, and it is, therefore, urgently recommended that the language of the paragraph as submitted be enacted into law.		
The proviso prohibiting the payment of mileage for the use of motor-cycles and automobiles furnished or owned by or maintained by the Government is recommended omitted, as such payments are prohibited by existing law.		
(14) <i>Officers and employees of the Department of Agriculture traveling on official business, when authorized by the Secretary of Agriculture to receive per diem allowances in lieu of subsistence, in accordance with section 13 of the act of Aug. 1, 1914 (38 Stat., 680), shall receive such allowances from each lump-sum appropriation provided for herein and made available for travel expenses, at rates of \$1.20, \$1.50, \$2.40, \$2.50, \$3, \$3.50, or \$4, varying with the character of work to be performed and the section of the country to be visited.</i>		
NOTE.—This item is annually submitted in accordance with sec. 13 of the act of Aug. 1, 1914 (38 Stat., 680).		
(15) <i>That hereafter, whenever the Secretary of Agriculture shall deem it necessary in carrying on activities authorized by this or any other Act making appropriations for the Department of Agriculture, he is authorized to cooperate with any Federal, State, county, or municipal officer or agency, or with any individual, partnership, corporation, or association, including farmers' organizations, and the parties, officials, or employees engaged in such cooperative activities shall not be subject to the proviso contained in the Act making appropriations for the legislative, executive, and judicial expenses of the Government for the fiscal year ending June 30, 1918, and for other purposes, in 39 Statutes at Large, at page 1106.</i>		
NOTE.—This is new legislation and authorizes the Secretary of Agriculture in carrying on the activities of the Department of Agriculture to cooperate with Federal, State, county, and municipal officers and agencies and with individuals, partnerships, corporations, and associations, including farmers' organizations, notwithstanding the provision of law contained in the legislative, executive, and judicial appropriation act of March 3, 1917, and without subjecting the parties, officers, or employees engaged in such activities to the penalties imposed by that provision.		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
While it is new legislation in the form presented, it is not designed to increase or extend the activities of the department beyond those already authorized by Congress and which are found to be proper in carrying out the objects specified in the appropriations made by Congress. It is deemed necessary and is offered by reason of the provision contained in the act making appropriations for the legislative, executive, and judicial expenses of the Government for the fiscal year ending June 30, 1918, and for other purposes, in 39 United States Statutes at Large, at page 1106, which reads as follows:		
"Provided, That on and after July 1, 1919, no Government official or employee shall receive any salary in connection with his services as such an official or employee from any source other than the Government of the United States, except as may be contributed out of the treasury of any State, county, or municipality, and no person, association, or corporation shall make any contribution to, or in any way supplement the salary of, any Government official or employee for the services performed by him for the Government of the United States. Any person violating any of the terms of this proviso shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine of not less than \$1,000 or imprisonment for not less than six months or by both such fine and imprisonment, as the court may determine."		
The foregoing provision is the outgrowth of an amendment inserted by the Senate when the bill was pending, directed primarily at the use of money contributed by the General Education Board for carrying on activities of the Bureau of Education, but framed so as to apply also to the various executive departments. At that time this department presented its views as to the effect of the amendment to the Committee on Agriculture of the House and the Committee on Agriculture and Forestry of the Senate, and later the amendment was modified in conference and enacted in its present form, the effective date being postponed until July 1, 1919, so as to permit careful consideration during the intervening time of its probable effect and the necessity for modification, if any.		
So far as the General Education Board is concerned the Department of Agriculture has no cooperative agreement or understanding whatsoever, either direct or indirect, with it, and does not propose to enter into any such arrangement. The facts with respect to such cooperation in the past, which commenced in 1906 and terminated in 1914, are set forth in a letter of April 3, 1914, to the President of the Senate from the Secretary of Agriculture, published as Senate Document No. 538, second session, sixty-third Congress, and in letters dated February 9 and 10, 1917, to the chairman of the House committee from the Secretary of Agriculture.		
Under the authority conferred upon the Department of Agriculture by the acts making appropriations for its expenses, it conducts much investigational and demonstrational work through the means of cooperative activities in which State, county, and municipal agencies have no part or are not the sole outside parties.		
In fact, Congress has provided expressly for such cooperative activities in connection with many of the items of appropriation for the Department of Agriculture, of which the following are illustrations:		
In the act of May 8, 1914, providing for cooperative agricultural extension work with State agricultural colleges, certain funds are appropriated with the following proviso:		
"Provided further, That no payment out of the additional appropriations herein provided shall be made in any year to any State until an equal sum has been appropriated for that year by the legislature of such State, or provided by State, county, college, local authority, or individual contributions from within the State, for the maintenance of the cooperative agricultural extension work provided for in this Act."		
In the act making appropriations for the Department of Agriculture for the fiscal year ending June 30, 1919, under the heading "General Expenses, States Relations Service," \$650,140 is appropriated for farmers' cooperative demonstrations and for the study and demonstration of the best methods of meeting the ravages of the cotton boll weevil, coupled with the following proviso:		
"Provided, That the expense of such service shall be defrayed from this appropriation and such cooperative funds as may be voluntarily contributed by State, county, and municipal agencies, associations of farmers, and individual farmers, universities, colleges, boards of trade, chambers of commerce, other local associations of business men, business organizations, and individuals within the State."		
In the same act under the heading "General Expenses, Bureau of Markets," provision is made—		
"For acquiring and diffusing among the people of the United States useful information on subjects connected with the marketing and dis-		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
tributing of farm and nonmanufactured food products and the purchase of farm supplies, independently and in cooperation with other branches of the department, State agencies, purchasing and consuming organizations, and persons engaged in the transportation, marketing, and distributing of farm and food products."		
Similarly, under the heading "General Expenses, Bureau of Plant Industry," authority is given—		
"For conducting such investigations of the nature and means of communication of the disease of citrus trees, known as citrus canker, and by applying such methods of eradication or control of the disease as in the judgment of the Secretary of Agriculture may be necessary, including the payment of such expenses and the employment of such persons and means, in the city of Washington and elsewhere, and cooperation with such authorities of the States concerned, organizations of growers, or individuals, as he may deem necessary to accomplish such purposes, \$250,000 and, in the discretion of the Secretary of Agriculture, no expenditures shall be made for these purposes until a sum or sums at least equal to such expenditures shall have been appropriated, subscribed, or contributed by State, county, or local authorities, or by individuals or organizations for the accomplishment of such purposes."		
Under the heading "General Expenses, Forest Service" an appropriation is made for investigations of methods for wood distillation and for the preservative treatment of timber and other activities; and for commercial demonstrations of improved methods or processes, in cooperation with individuals and companies.		
Provisions of this character have been carried for years in the acts making appropriations for this department, and other illustrations might be quoted, if necessary.		
It is manifest from the foregoing that Congress believed that cooperation by this department with individuals and agencies other than State, county, and municipal was not only desirable but in many cases essential.		
Pursuant to such express provisions and acting upon the basis of what appeared to be the attitude of Congress generally, this department from time to time has entered into many different kinds of cooperative arrangements to which individuals, associations, and corporations, other than State, county, or municipal agencies, have been or are now parties. In some cases such cooperative arrangements have been found necessary in order properly to perform the duties imposed upon the department by Congress even though cooperation was not expressly mentioned in the act making appropriation therefor. In fact, there are numerous items requiring the department to perform certain duties without expressly mentioning cooperation, but in general character similar to those in which cooperation is expressly provided for.		
The most important activity in which the Forest Service is interested and in which persons are employed who may possibly come within the prohibition of the amendment is that of protection against forest fires. As far as it has been practical to do so, the Forest Service has brought together the fire fighting services of the Federal Government, State authorities, and private interests, for the common protection of the lands belonging to all. Obviously, it is impossible to determine in advance where or how often fires will originate in any particular region, and the lands of the Federal Government, State governments, and private interests frequently are so intermingled that it is absolutely essential that such work shall be carried on under a scheme which will give the protection desired without duplication of effort by the interests involved. Such agreements are participated in by private individuals, timberland owners, lumber companies, railroads, fire protection associations, telephone companies, and others. While it is within the range of possibility that the Federal Government might pay the entire salaries and expenses of all persons employed by it for services rendered for its benefit, such diversion would entail innumerable complications. In order properly to protect the national forests the Federal Government might have to assume entirely the responsibilities which now attach to private owners and are now shared by them. In some cases the parties to agreements provide for certain fire patrols, the share of each in the expense being determined by the amount of property of each to be protected, and the actual expense for fire fighting is prorated. In the case of forest lands in the vicinity of railroads, it is particularly essential that the railroads should participate in the fire protection service because the operations of the railroads frequently cause fires. If Government fire protection were segregated from that of private owners it would be found that private owners would not and could not economically organize independent protection for their comparatively small areas. If they could not cooperate, they would probably leave the whole burden to the Forest Service either to prevent fires on their lands in order to protect Government lands or would allow the fires to burn until it became neces-		



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
sary for the Government to fight them in order to prevent their running over into Government property. Participation by private interests in such fire protection work enhances their interest in the prevention and suppression of fires.		
The Forest Service also has cooperative arrangements with lumber companies and timberland owners for the purpose of lessening the damage to timber by the cutting and treating of infested trees and the destruction of broods of insects through the services of employees paid by the department, but whose expenses are paid by the cooperators.		
In carrying on its farmers' cooperative demonstration and other activities under the authority granted to the Department of Agriculture in the annual appropriations for the States Relations Service the department enters into numerous cooperative arrangements under which the salaries and expenses of agents and other employees of the department engaged in the work are paid partly by the department and partly by local soil and crop improvement associations, farm bureaus, agricultural committees, farmers' clubs and associations, fair associations, citizens' and business associations, chambers of commerce and boards of trade, banks, business men, railroads, and private subscriptions, aside from funds contributed from State, county, and municipal treasuries. Such contributions amount to several hundred thousand dollars per annum.		
Other bureaus such as the Bureau of Public Roads, Bureau of Biological Survey, and the Bureau of Animal Industry are and have been engaged in important activities in which the accomplishment of the objects specified by Congress has been facilitated by cooperation with individuals, corporations, and associations, involving joint payment of traveling, subsistence, and other expenses, and frequently the joint payment of employees of the department required for the purpose.		
While cooperative work of the character which the department conducts has resulted in a saving of expenditure, and compliance with the provision under discussion which becomes effective on July 1, 1919, may necessitate larger appropriations in order to accomplish the same objects, the department does not rely upon the possible increase of expenditure as an argument against the application of the provision to its activities. Such cooperative work has brought to the department the moral support and the active assistance of those who provided the funds, when such support and assistance might not have been given otherwise. In many cases the carrying on of the work rendered necessary in order to accomplish objects of public interest results at the time in immediate benefit to the cooperators, and it is believed that they should share in the expense for this reason. The department specifically retains and exercises full control over the employment and cooperative activities of persons engaged in such work.		
In this connection, there may arise differences of opinion as to the exact application in particular cases of the prohibitions contained in the provision which becomes effective July 1, 1919, and, as severe punishment is provided for the violation of any of its terms, the department would necessarily be compelled to refrain from entering into many apparently proper joint activities because of the fear that a very broad application might be made of such prohibitions.		
In order to enable the department to carry out the express requirements which have been made by Congress in the past and in current appropriation bills and to accomplish the objects specified by Congress, where cooperation is not expressly mentioned, in the most efficient way and with the greatest benefit to both the public and the private interests involved, the provision contained in item 15, or a provision of like effect, is recommended.		
Total salaries, Department of Agriculture-----	\$6,627,520. 00	\$6,021,840. 00
Total general expenses, Department of Agriculture-----	23,421,266. 00	21,853,513. 00
Grand total, Department of Agriculture-----	30,048,786. 00	27,875,353. 00
Total supplemental estimates, Department of Agriculture-----	<sup>a</sup> 259, 220. 00	-----
Grand total, including supplemental estimates, Department of Agriculture-----	30,308,006. 00	27,875,353. 00

<sup>a</sup> \$184,030 of this amount is to bring the salaries of 1,001 clerical and subclerical employees up to the minimum scale recommended for such employees, as set forth in the general note regarding minimum salaries.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

General object (title of appropriation), date of acts, references to Statutes at Large, or to Revised Statutes, and estimated amount required for each detailed object.	Total amount submitted in printed estimates for inclusion in the Agricultural appropriation bill:	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.
Total appropriations included in the Agricultural appropriation act:			
For the fiscal year 1910.... \$12,995,036	For the fiscal year 1911..... \$13,377,136		
For the fiscal year 1911.... 13,487,636	For the fiscal year 1912..... 15,997,066		
For the fiscal year 1912.... 16,900,016	For the fiscal year 1913..... 17,233,452		
For the fiscal year 1913.... 16,651,496	For the fiscal year 1914..... 18,287,230		
For the fiscal year 1914.... 17,986,945	For the fiscal year 1915..... 19,061,332		
For the fiscal year 1915.... 19,865,832	For the fiscal year 1916..... 20,706,013		
For the fiscal year 1916.... 22,971,782	For the fiscal year 1917..... 24,159,089		
For the fiscal year 1917.... 24,948,852	For the fiscal year 1918..... 26,096,907		
For the fiscal year 1918.... 25,929,113	For the fiscal year 1919..... 26,458,551		
For the fiscal year 1919.... 27,875,353	For the fiscal year 1920..... 30,048,786		
NOTE.—The estimate of the Secretary of Agriculture for "printing and binding," under sec. 2, act of May 8, 1872 (Rev. Stat., 720, sec. 3661), will be found under the title of "Miscellaneous," <i>post</i> , in the Book of Estimates.			
For statement of condition of work, efficiency of employees, etc., see Appendix D, in the Book of Estimates.			



*Buildings rented by the Department of Agriculture in the District of Columbia for the fiscal year 1919.*

Name or location of building.	Purpose for which used.	Floor space (gross).	Annual rental.	Annual rental per square foot.	Assessed valuation of buildings and grounds.	Proportion of rental covering cost of heat, light, water, elevator, or other service.
1358 B Street SW.....	Bureau of Markets, department library, Bureau of Plant Industry, Bureau of Biological Survey, Bureau of Crop Estimates, Division of Publications (offices and laboratories).	Square feet. 88,955	\$35,360.00	.397	\$187,179.00	(1)
220 Fourteenth Street SW.....	Bureau of Plant Industry, States Relations Service (offices and storage).	55,603	20,000.00	.36	122,196.00	(1)
Atlantic Building, 930 F Street NW.....	Forest Service (offices).....	45,310	22,500.00	.496	138,670.00	2 \$10,000.00
Homer Building, 601 Thirteenth Street NW. (portion of second and third floors).	Bureau of Markets, Bureau of Plant Industry (offices).....	19,819	17,000.00	.857	869,100.00	300.00
216 Thirteenth Street SW.....	Bureau of Chemistry (offices and laboratories).....	56,154	16,000.00	.284	97,861.00	(1)
Busch Building, 710 E Street NW.....	Bureau of Animal Industry, Bureau of Soils (offices and storage).....	36,149	12,000.00	.331	83,010.00	(1)
Willard Building, 513-515 Fourteenth Street NW.....	Bureau of Public Roads (offices and laboratories).....	33,851	9,500.00	.281	161,836.00	(1)
Globe Building, 339 Pennsylvania Avenue NW.....	Bureau of Plant Industry (packing, assembling, and mailing seeds; storage).....	39,279	4,800.00	.122	27,312.00	(1)
215 Thirteenth Street SW.....	Division of Publications (offices and storage).....	18,258	4,000.00	.218	21,287.00	(1)
1316 B Street SW.....	Office of the Solicitor (offices and storage).....	9,792	3,000.00	.306	18,004.00	(1)
220 Thirteenth Street SW.....	Insecticide and Fungicide Board, Bureau of Chemistry (offices and laboratories).....	9,843	3,000.00	.304	17,045.00	(1)
200-202 Fourteenth Street SW.....	Bureau of Plant Industry: States Relations Service, Federal Horticultural Board, Bureau of Biological Survey, Office of Forest Appeals (offices and laboratories).....	14,077	3,000.00	.212	21,435.00	(1)
1350 B Street SW.....	Bureau of Animal Industry (offices).....	6,405	2,700.00	.421	19,720.00	(1)
1304-1306 B Street SW.....	Bureau of Plant Industry (offices and storage).....	13,010	2,500.00	.192	21,669.00	(1)
224 Twelfth Street SW.....	Office of Farm Management (offices and storage).....	11,894	2,500.00	.21	17,076.00	(1)
215 Twelfth Street SW.....	Office of Farm Management (offices).....	2,810	450.00	.16	3,646.00	(1)
217 Twelfth Street SW.....	Office of Farm Management, Office of Exhibits (offices).....	2,596	450.00	.173	4,716.00	(1)
Munsey Building, room 638.....	Bureau of Animal Industry (offices).....	366	420.00	1.15	1,240,346.00	100.00
221 Linworth Place SW.....	Bureau of Markets, Bureau of Animal Industry (offices, warehouse, cotton and paper work).....	22,067	5,400.00	.245	31,287.00	(1)
220 Linworth Place SW.....	Bureau of Markets, Bureau of Animal Industry, Office of the Secretary (storage).....	15,820	3,750.00	.237	19,176.00	(1)
Terminal Storage Warehouse, E Street between Eleventh and Twelfth Streets SW.....	Bureau of Markets (storage of cotton and paper).....	4,519	1,200.00	.265	271,570.00	(1)
1315 C Street, N.W.....	Bureau of Markets (storage of cotton).....	3,680	1,000.00	.271	6,564.00	(1)
212-214 Thirteenth Street SW.....	Bureau of Chemistry (supply room and storage).....	9,002	960.00	.106	8,758.00	(1)
Rear 215 Twelfth Street SW.....	Bureau of Chemistry, Bureau of Biological Survey, and Bureau of Markets (storage).....	2,906	600.00	.206	3,402.00	(1)
929 Seventh Street SW.....	Bureau of Soils, Bureau of Animal Industry, Bureau of Public Roads (storage).....	8,553	600.00	.07	16,393.00	(1)
2511 M Street NW.....	Weather Bureau (storage).....	2,332	500.00	.214	3,092.00	(1)
920 F Street NW (portion of basement).....	Forest Service (storage).....	930	420.00	.451	62,512.00	(1)
Rear 913 E Street NW.....	Forest Service (workshop).....	1,474	270.00	.185	2,800.00	(1)
Rear 1228 C Street SW.....	Bureau of Public Roads (storage).....	1,200	144.00	.12	400.00	(1)
215 Linworth Place SW.....	Bureau of Animal Industry (storage).....	975	300.00	.307	3,089.00	(1)
Rear 349 Pennsylvania Avenue NW.....	Bureau of Plant Industry (auto truck storage).....	233	84.00	.36	500.00	(1)
1312 B Street SW.....	States Relations Service (offices).....	3,000	1,000.00	.333	5,576.00	(1)
Bank of Commerce and Savings, Seventh and E Streets NW.....	Bureau of Markets (offices).....	6,800	5,200.00	.764	122,880.00	(1)
Legal Building, Eighth and G Streets NW.....	do.....	8,100	7,000.00	.864	35,952.00	(1)
1120 Virginia Avenue SW.....	Bureau of Entomology (offices).....	2,800	540.00	.192	3,738.00	(1)
1227 F Street NW. (Homer Building) (room in basement).....	Bureau of Markets (storage).....	3,600	900.00	.25	869,100.00	300.00
224 Fourteenth Street SW.....	States Relations Service (offices).....	2,100	840.00	.40	5,745.00	(1)
1369 C Street SW.....	Bureau of Markets (offices and laboratories).....	2,057	720.00	.35	3,291.00	(1)
Total amount paid for rent in the District of Columbia.....			190,608.00			

<sup>1</sup> None.<sup>2</sup> Approximately.

Average rental, 33.6 cents per square foot.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920.*

	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	Amount appropriated for the fiscal year ended June 30, 1918.
PERMANENT ANNUAL APPROPRIATIONS.			
(1) <i>Meat Inspection, Bureau of Animal Industry</i> —			
<p>That there is permanently appropriated, out of any money in the Treasury not otherwise appropriated, the sum of \$3,000,000, for the expenses of the inspection of cattle, sheep, swine, and goats, and the meat and meat-food products thereof which enter into interstate or foreign commerce, and for all expenses necessary to carry into effect the provisions of this act relating to meat inspection, including rent and the employment of labor in Washington and elsewhere, for each year. And the Secretary of Agriculture shall, in his annual estimates made to Congress, submit a statement in detail, showing the number of persons employed in such inspections and the salary or per diem paid to each, together with the contingent expenses of such inspectors and where they have been and are employed (<i>act June 30, 1906, vol. 34, pp. 674-679, secs. 1-22</i>)</p>			
	\$3,000,000.00	\$3,000,000.00	\$3,000,000.00
<p>NOTE.—The detailed statement required by law has been submitted to Congress in a separate communication and will be printed as a public document.</p>			
(2) <i>Refund to Depositors Excess of Deposits, National Forests Fund</i> —			
<p>That all money received after July 1, 1907, by or on account of the Forest Service for timber, or from any other source of forest-reservation revenue, shall be covered into the Treasury of the United States as a miscellaneous receipt; and there is hereby appropriated and made available as the Secretary of Agriculture may direct, out of any funds in the Treasury not otherwise appropriated, so much as may be necessary to make refunds to depositors of money heretofore or hereafter deposited by them to secure the purchase price on the sale of any products or for the use of any land or resources of the national forests in excess of amounts found actually due from them to the United States.</p>			
(3)			
<p>That so much of an act entitled "An act making appropriations for the Department of Agriculture for the fiscal year ending June 30, 1908," approved Mar. 4, 1907 (34 Stat. L., pp. 1256, 1270), which provides for refunds by the Secretary of Agriculture to depositors of moneys to secure the purchase price of timber or the use of lands or resources of the national forests such sums as may be found to be in excess of the amounts found actually due the United States, be, and is hereby amended hereafter to appropriate and to include so much as may be necessary to refund or pay over to the rightful claimants such sums as may be found by the Secretary of Agriculture to have been erroneously collected for the use of any lands, or for timber or other resources sold from lands located within, but not a part of, the national forests, or for alleged illegal acts done upon such lands, which acts are subsequently found to have been proper and legal; and the Secretary of Agriculture shall make annual report to Congress of the amounts refunded hereunder (<i>acts Mar. 4, 1907, vol. 34, pp. 1256, 1270, sec. 1; Mar. 4, 1911, vol. 36, p. 1253, sec. 1</i>)</p>			
	70,000.00	70,000.00	74,020.45



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	Amount appropriated for the fiscal year ended June 30, 1918.
(4) <i>Acquisition of Lands for Protection of Watersheds of Navigable Streams—</i>			
That there is hereby appropriated, for the fiscal year ending June 30, 1910, the sum of \$1,000,000, and for each fiscal year thereafter a sum not to exceed \$2,000,000, for use in the examination, survey, and acquirement of lands located on the headwaters of navigable streams or those which are being or which may be developed for navigable purposes: <i>Provided</i> , That the provisions of this section shall expire by limitation on the 30th day of June, 1915 ( <i>act Mar. 1, 1911, vol. 36, p. 961, sec. 3</i> )-----		\$868, 475. 76	
(5) <i>National Forest Reservation Commission—</i>			
That a sum sufficient to pay the necessary expenses of the commission and its members, not to exceed an annual expenditure of \$25,000, is hereby appropriated out of any money in the Treasury not otherwise appropriated. Said appropriation shall be immediately available and shall be paid out on the audit and order of the president of the said commission, which audit and order shall be conclusive and binding upon all departments as to the correctness of the accounts of said commission ( <i>act Mar. 1, 1911, vol. 36, p. 963, sec. 14</i> )-----	\$25, 000. 00	\$25, 000. 00	51. 39
(6) <i>Cooperative Agricultural Extension Work—</i>			
That for the purpose of paying the expenses of said cooperative agricultural extension work and the necessary printing and distributing of information in connection with the same, there is permanently appropriated, out of any money in the Treasury not otherwise appropriated, the sum of \$480,000 for each year, \$10,000 of which shall be paid annually, in the manner herein-after provided, to each State which shall by action of its legislature assent to the provisions of this act: <i>Provided</i> , That payment of such installments of the appropriation hereinbefore made as shall become due to any State before the adjournment of the regular session of the legislature meeting next after the passage of this Act may, in the absence of prior legislative assent, be made upon the assent of the governor thereof, duly certified to the Secretary of the Treasury: <i>Provided further</i> , That there is also appropriated an additional sum of \$600,000 for the fiscal year following that in which the foregoing appropriation first becomes available, and for each year thereafter for seven years a sum exceeding by \$500,000 the sum appropriated for each preceding year, and for each year thereafter there is permanently appropriated for each year the sum of \$4,100,000 in addition to the sum of \$480,000 herein-before provided: <i>Provided further</i> , That before the funds herein appropriated shall become available to any college for any fiscal year plans for the work to be carried on under this act shall be submitted by the proper officials of each college and approved by the Secretary of Agriculture. Such additional sums shall be used only for the purposes hereinbefore stated, and shall be allotted annually to each State by the Secretary of Agriculture and paid in the manner hereinbefore provided, in the proportion which the rural popu-			



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	Amount appropriated for the fiscal year ended June 30, 1918.
(6) <i>Cooperative Agricultural Extension Work—Continued.</i>			
lation of each State bears to the total rural population of all the States as determined by the next preceding Federal census: <i>Provided further</i> , That no payment out of the additional appropriations herein provided shall be made in any year to any State until an equal sum has been appropriated for that year by the legislature of such State, or provided by State, county, college, local authority, or individual contributions from within the State, for the maintenance of the cooperative agricultural extension work provided for in this Act ( <i>act May 8, 1914, vol. 38, p. 373, sec. 3</i> )-----	\$3,080,000.00	\$2,580,000.00	\$2,075,054.37
(7) <i>Cooperative Construction of Rural Post Roads—</i>			
The Secretary of Agriculture is authorized to cooperate with the States, through their respective State highway departments, in the construction of rural post roads; but no money apportioned under this Act to any State shall be expended therein until its legislature shall have assented to the provisions of this Act, except that, until the final adjournment of the first regular session of the legislature held after the passage of this Act, the assent of the governor of the State shall be sufficient. The Secretary of Agriculture and the State highway department of each State shall agree upon the roads to be constructed therein and the character and method of construction: <i>Provided</i> , That all roads constructed under the provisions of this Act shall be free from tolls of all kinds.			
SEC. 3. That for the purpose of carrying out the provisions of this Act there is hereby appropriated, out of any money in the Treasury not otherwise appropriated, for the fiscal year ending June thirtieth, nineteen hundred and seventeen, the sum of \$5,000,000; for the fiscal year ending June thirtieth, nineteen hundred and eighteen, the sum of \$10,000,000; for the fiscal year ending June thirtieth, nineteen hundred and nineteen, the sum of \$15,000,000; for the fiscal year ending June thirtieth, nineteen hundred and twenty, the sum of \$20,000,000; and for the fiscal year ending June thirtieth, nineteen hundred and twenty-one, the sum of \$25,000,000. So much of the appropriation apportioned to any State for any fiscal year as remains unexpended at the close thereof shall be available for expenditure in that State until the close of the succeeding fiscal year, except that amounts apportioned for any fiscal year to any State which has not a State highway department shall be available for expenditure in that State until the close of the third fiscal year succeeding the close of the fiscal year for which such apportionment was made. Any amount apportioned under the provisions of this Act unexpended at the end of the period during which it is available for expenditure under the terms of this section shall be reapportioned, within sixty days thereafter, to all the States in the same manner and on the same basis, and certified to the Secretary of the Treasury and to the State highway departments and to the governors of States having no State highway departments in the same way as if it were being apportioned under this Act for the first			



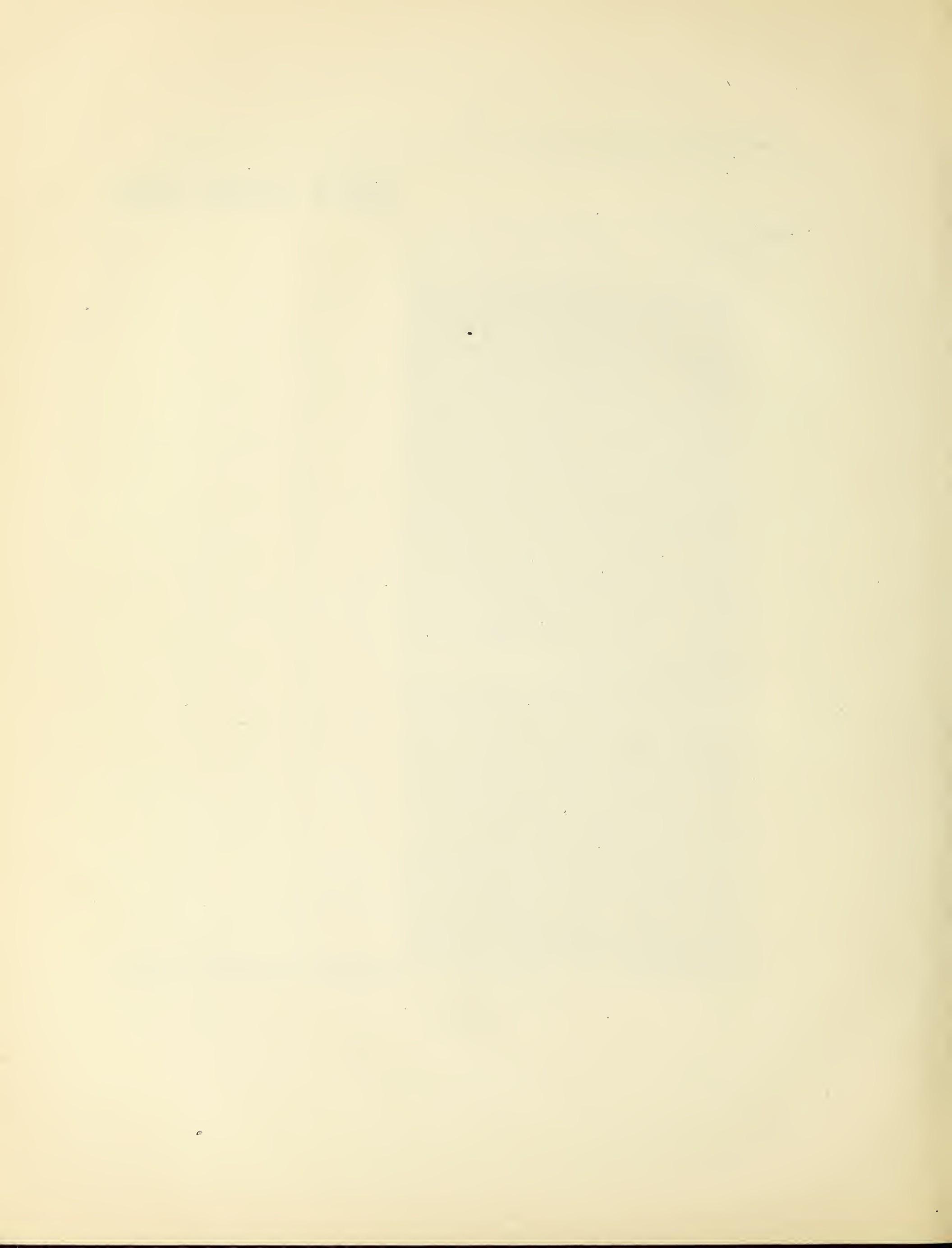
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	Amount appropriated for the fiscal year ended June 30, 1918
(7) <i>Cooperative Construction of Rural Post Roads—Continued.</i>			
time: <i>Provided</i> , That in States where the constitution prohibits the State from engaging in any work of internal improvements, then the amount of the appropriation under this Act apportioned to any such State shall be turned over to the highway department of the State or to the governor of said State to be expended under the provisions of this Act and under the rules and regulations of the Department of Agriculture, when any number of counties in any such State shall appropriate or provide the proportion or share needed to be raised in order to entitle such State to its part of the appropriation apportioned under this Act.			
SEC. 4. That so much, not to exceed three per centum, of the appropriation for any fiscal year made by or under this Act as the Secretary of Agriculture may estimate to be necessary for administering the provisions of this Act shall be deducted for that purpose, available until expended. Within sixty days after the close of each fiscal year the Secretary of Agriculture shall determine what part, if any, of the sums theretofore deducted for administering the provisions of this Act will not be needed for that purpose and apportion such part, if any, for the fiscal year then current in the same manner and on the same basis, and certify it to the Secretary of the Treasury and to the State highway departments, and to the governors of States having no State highway departments, in the same way as other amounts authorized by this Act, to be apportioned among all the States for such current fiscal year. The Secretary of Agriculture, after making the deduction authorized by this section, shall apportion the remainder of the appropriation for each fiscal year among the several States in the following manner: One-third in the ratio which the area of each State bears to the total area of all the States; one-third in the ratio which the population of each State bears to the total population of all the States, as shown by the latest available Federal census; one-third in the ratio which the mileage of rural delivery routes and star routes in each State bears to the total mileage of rural delivery routes and star routes in all the States, at the close of the next preceding fiscal year, as shown by the certificate of the Postmaster General, which he is directed to make and furnish annually to the Secretary of Agriculture.			
SEC. 5. That within sixty days after the approval of this Act the Secretary of Agriculture shall certify to the Secretary of the Treasury and to each State highway department and to the governor of each State having no State highway department the sum which he has estimated to be deducted for administering the provisions of this Act and the sum which he has apportioned to each State for the fiscal year ending June thirtieth, nineteen hundred and seventeen, and on or before January twentieth next preceding the commencement of each succeeding fiscal year shall make like certificates for such fiscal year ( <i>act July 11, 1916, vol. 39, p. 356, secs. 1, 3, 4, and 5</i> ) . . . . .	\$20,000,000.00	\$15,000,000.00	\$591,029.56



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	Amount appropriated for the fiscal year ended June 30, 1918.
(8) <i>Cooperative Construction, etc., of Roads and Trails, National Forests—</i>  SEC. 8. That there is hereby appropriated and made available until expended, out of any moneys in the National Treasury not otherwise appropriated, the sum of \$1,000,000 for the fiscal year ending June thirtieth, nineteen hundred and seventeen, and each fiscal year thereafter, up to and including the fiscal year ending June thirtieth, nineteen hundred and twenty-six, in all \$10,000,000, to be available until expended under the supervision of the Secretary of Agriculture, upon request from the proper officers of the State, Territory, or county for the survey, construction, and maintenance of roads and trails within or only partly within the national forests, when necessary for the use and development of resources upon which communities within and adjacent to the national forests are dependent: <i>Provided</i> , That the State, Territory, or county shall enter into a cooperative agreement with the Secretary of Agriculture for the survey, construction, and maintenance of such roads or trails upon a basis equitable to both the State, Territory, or county, and the United States: <i>And provided also</i> , That the aggregate expenditures in any State, Territory, or county shall not exceed ten per centum of the value, as determined by the Secretary of Agriculture, of the timber and forage resources which are or will be available for income upon the national forest lands within the respective county or counties wherein the roads or trails will be constructed; and the Secretary of Agriculture shall make annual report to Congress of the amounts expended hereunder: That immediately upon the execution of any cooperative agreement hereunder the Secretary of Agriculture shall notify the Secretary of the Treasury of the amount to be expended by the United States within or adjacent to any national forest thereunder, and beginning with the next fiscal year and each fiscal year thereafter the Secretary of the Treasury shall apply from any and all revenues from such forest ten per centum thereof to reimburse the United States for expenditures made under such agreement until the whole amount advanced under such agreement shall have been returned from the receipts from such national forest. SEC. 9. That out of the appropriations made by or under this Act, the Secretary of Agriculture is authorized to employ such assistants, clerks, and other persons in the city of Washington and elsewhere, to be taken from the eligible lists of the Civil Service Commission, to rent buildings outside of the city of Washington, to purchase such supplies, material, equipment, office fixtures, and apparatus, and to incur such travel and other expense as he may deem necessary for carrying out the purposes of this Act ( <i>act July 11, 1916, vol. 39, p. 358, secs. 8 and 9</i> ) . . . . .	\$1,000,000.00	\$1,000,000.00	\$252,444.93



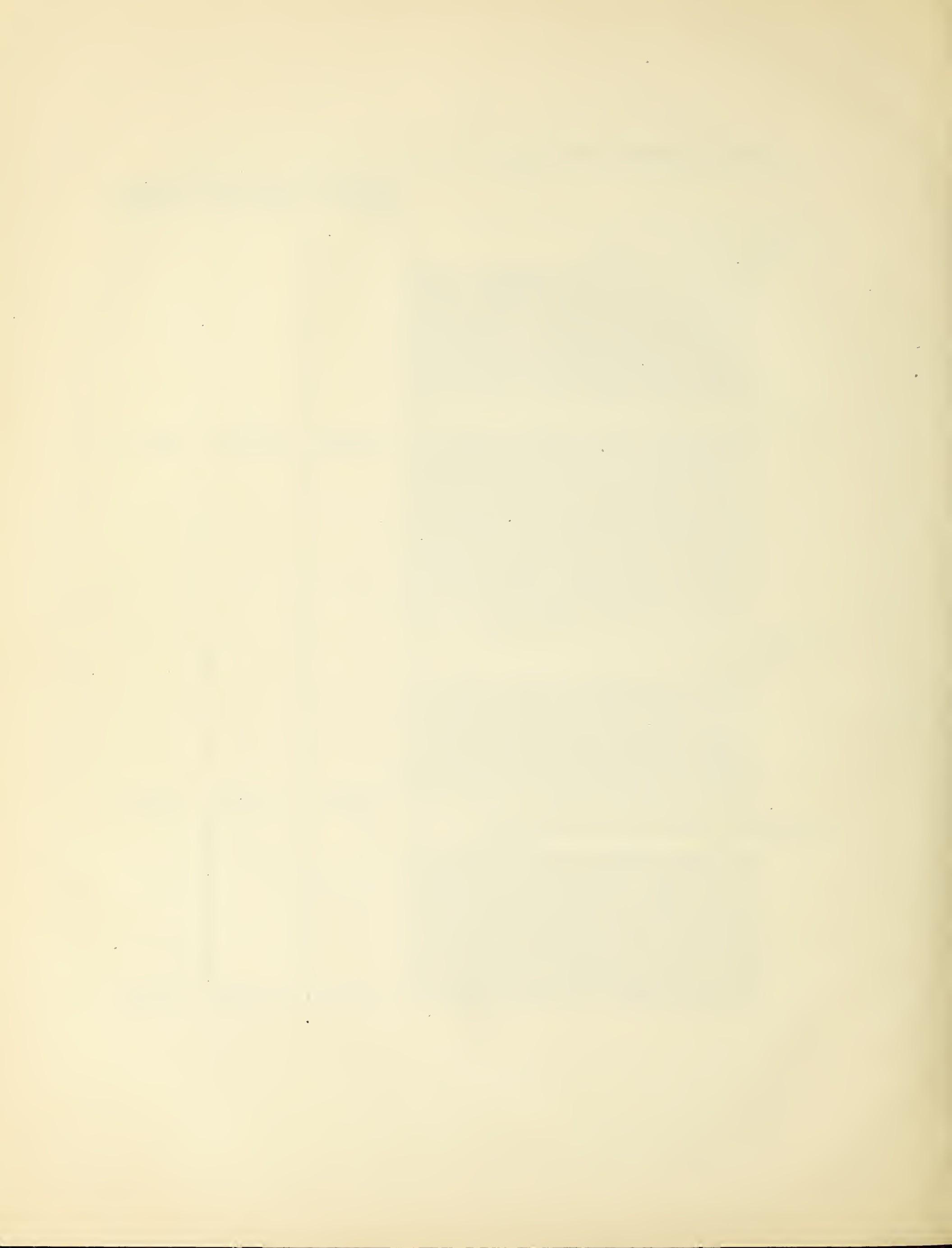
*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	Amount appropriated for the fiscal year ended June 30, 1918.
<i>Special Funds.</i>			
(9) <i>Payment to States and Territories from the National Forests Fund</i> —			
That hereafter 25 per cent of all money received from each forest reserve during any fiscal year, including the year ending June 30, 1908, shall be paid at the end thereof by the Secretary of the Treasury to the State or Territory in which said reserve is situated, to be expended as the State or Territorial legislature may prescribe for the benefit of the public schools and public roads of the county or counties in which the forest reserve is situated: <i>Provided</i> , That when any forest reserve is in more than one State or Territory or county the distributive share to each from the proceeds of said reserve shall be proportional to its area therein ( <i>acts Mar. 4, 1907, vol. 34, p. 1270, sec. 1; May 23, 1908, vol. 35, p. 260, sec. 1</i> )-----			
That 5 per cent of all moneys received during any fiscal year from each national forest into which the lands acquired under this act may from time to time be divided shall be paid, at the end of such year, by the Secretary of the Treasury to the State in which such national forest is situated, to be expended as the State legislature may prescribe for the benefit of the public schools and public roads of the county or counties in which such national forest is situated: <i>Provided</i> , That when any national forest is in more than one State or county the distributive share to each from the proceeds of such forest shall be proportional to its area therein: <i>Provided further</i> , That there shall not be paid to any State for any county an amount equal to more than 40 per cent of the total income of such county from all other sources ( <i>act Mar. 1, 1911, vol. 36, p. 963, sec. 13</i> )-----	\$700, 000. 00	\$700, 000. 00	\$848, 874. 01
That sec. 13 of the act entitled "An act to enable any State to cooperate with any other State or States, or with the United States, for the protection of the watersheds of navigable streams, and to appoint a commission for the acquisition of lands for the purpose of conserving the navigability of navigable rivers," approved Mar. 1, 1911 (36 Stat. L., 963), is hereby amended by striking out the word "five" in the first line of said section and inserting in lieu thereof the word "twenty-five" ( <i>act June 30, 1914, vol. 38, p. 441, sec. 1</i> )-----			



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	Amount appropriated for the fiscal year ended June 30, 1918.
(10) <i>Cooperative Work, Forest Service—</i>			
Hereafter all moneys received as contributions toward cooperative work in forest investigations shall be covered into the Treasury and shall constitute a special fund, which is hereby appropriated and made available until expended, as the Secretary of Agriculture may direct, for the payment of the expenses of said investigations by the Forest Service and for refunds to the contributors of amounts heretofore or hereafter paid in by them in excess of their share of the cost of said investigations ( <i>acts Mar. 3, 1905, vol. 33, p. 1070, sec. 1; June 30, 1906, vol. 34, p. 684, sec. 1</i> )-----			
(11) That hereafter all moneys received as contributions toward cooperative work in forest investigations, or the protection and improvement of the national forests, shall be covered into the Treasury and shall constitute a special fund, which is hereby appropriated and made available until expended, as the Secretary of Agriculture may direct, for the payment of the expenses of said investigations, protection, or improvements by the Forest Service, and for refunds to the contributors of amounts heretofore or hereafter paid in by them in excess of their share of the cost of said investigations, protection, or improvements: <i>Provided</i> , That annual report shall be made to Congress of all such moneys so received as contributions for such cooperative work ( <i>act June 30, 1914, vol. 38, p. 430, sec. 1</i> )-----	\$35,000.00	\$35,000.00	\$88,917.96
(12) <i>Payment to School Funds, Arizona and New Mexico, National Forests Fund—</i>			
At the close of each fiscal year there shall be paid by the Secretary of the Treasury to the State, as income for its common-school fund, such proportion of the gross proceeds of all the national forests within said State as the area of lands hereby granted to said State for school purposes which are situated within said forest reserves, whether surveyed or unsurveyed, and for which no indemnity has been selected, may bear to the total area of all the national forests within said States ( <i>act June 20, 1910, vol. 36, p. 557, sec. 1</i> )-----	45,000.00	45,000.00	61,532.36
(13) <i>Roads and Trails for States, National Forests Fund—</i>			
That hereafter an additional 10 per cent of all moneys received from the national forests during each fiscal year shall be available at the end thereof, to be expended by the Secretary of Agriculture for the construction and maintenance of roads and trails within the national forests in the States from which such proceeds are derived; but the Secretary of Agriculture may, whenever practicable, in the construction and maintenance of such roads, secure the cooperation or aid of the proper State or Territorial authorities in the furtherance of any system of highways of which such roads may be made a part ( <i>act Mar. 4, 1913, vol. 37, p. 843, sec. 1</i> )-----	280,000.00	280,000.00	226,127.99



	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	Amount appropriated for the fiscal year ended June 30, 1918.
(14) <i>Proceeds, Sale of Timber from Indian Lands, Uintah National Forest—</i>			
Indefinite appropriation of the proceeds from the sale of timber on Uintah National Forest; such sums as may be appropriated being available for transfer from this special fund to the Indian trust fund "Proceeds of Uintah and White River Ute lands," upon rendition from time to time of auditor's certificates of settlement calling for transfer ( <i>act Mar. 3, 1905, vol. 33, p. 1070, sec. 1</i> )-----			
(15) <i>Agricultural Experiment Stations, Receipts from Sales</i> <sup>1</sup> —			
Receipts from sales of products, Alaska ( <i>act June 3, 1902, vol. 32, p. 302, sec. 1</i> )-----			
Receipts from sales of products, Hawaii ( <i>same act</i> )-----			\$338.57
Receipts from sales of products, Porto Rico ( <i>same act</i> )-----			
Receipts from sales of products, Guam ( <i>act May 23, 1908, vol. 35, p. 266, sec. 1</i> )-----			
Total Permanent and Indefinite under Department of Agriculture-----	\$28,235,000.00	\$22,735,000.00	8,086,867.35
(16) For the purpose of more effectually providing for the national security and defense and carrying on the war with Germany by gathering authoritative information concerning the food supply, by increasing production, by preventing waste of the food supply, by regulating the distribution thereof, and by other means and methods ( <i>act Aug. 10, 1917, vol. 40, p. 374, sec. 1</i> )-----			7,842,566.51
(17) On account of the menace to cotton culture in the United States arising from the existence of the pink bollworm in Mexico, the Secretary of Agriculture, in order to prevent the establishment and spread of such worm in Texas and other parts of the United States, is authorized to make surveys to determine its actual distribution in Mexico; to establish, in cooperation with the States concerned, a zone or zones free from cotton culture on or near the border of any State or States adjacent to Mexico; and to cooperate with the Mexican Government or local Mexican authorities in the extermination of local infestations near the border of the United States. For rent outside of the District of Columbia, and for the employment of such persons in the city of Washington and elsewhere, as the Secretary of Agriculture may deem necessary ( <i>act Oct. 6, 1917, vol. 40, p. 374, sec. 1</i> )-----			173,202.27

<sup>1</sup> These appropriations repealed by act of Mar. 4, 1915, vol. 38, p. 1109, sec. 1.



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	Amount appropriated for the fiscal year ended June 30, 1918.
<i>Appropriations Transferred from Other Departments—</i>			
[Carried in sundry civil act.]			
(18) For the protection of lands involved in Oregon and California Railroad forfeiture suit: To enable the Secretary of the Interior, with the cooperation of the Secretary of Agriculture or otherwise, as in his judgment may be most advisable, to establish and maintain a patrol to prevent trespass and to guard against and check fires upon the lands involved in the case of the United States versus Oregon and California Railroad Company and others, suit numbered thirty-three hundred and forty, in the district court for the District of Oregon, now pending on appeal in the Supreme Court of the United States-----	\$25,000.00	\$34,750.00	
(19) For contribution to the Forest Service for construction of a bridge across the Narrows over the waters between Cass Lake and Pike Bay, in the Minnesota National Forest, Minnesota, upon condition that the local authorities, State or county, contribute \$10,000 toward the building of the same ( <i>act June 12, 1917, vol. 40, p. 160, sec. 1</i> )-----		10,000.00	
[Carried in Army act.]			
(20) For the establishment and maintenance by the Weather Bureau of additional aerological stations, for observing, measuring, and investigating atmospheric phenomena in the aid of aeronautics, including salaries, travel, and other expenses in the city of Washington and elsewhere, \$100,000, to be expended under the direction of the Secretary of Agriculture ( <i>act May 12, 1917, vol. 40, p. 43, sec. 1</i> )-----			57,510.04
(21) Items allotted from the President's appropriation for National Security and Defense-----	1,704,250.00		
(22) Procuring and disposing of nitrate of soda (Food and Fuel)-----	\$10,000,000.00	10,000,000.00	
PRINTING AND BINDING.			
[Carried in sundry civil act.]			
(23) For the Department of Agriculture, including not to exceed \$47,000 for the Weather Bureau, and including the Annual Report of the Secretary of Agriculture, as required by the act approved January twelfth, eighteen hundred and ninety-five, and in pursuance of the joint resolution numbered thirteen, approved March thirtieth, nineteen hundred and six, and also including not to exceed \$200,000 for farmers' bulletins, which shall be adapted to the interests of the people of the different sections of the country, an equal proportion of four-fifths of which shall be delivered to or sent out under the addressed franks furnished by Senators, Representatives, and Delegates in Congress, as they shall direct-----	700,000.00	600,000.00	650,000.00
NOTE.—An increase of \$100,000 is recommended and is urgently needed in the appropriation for printing and binding for the Department of Agriculture for the fiscal year 1920. The appropriation for			



*Estimates of appropriations required for the service of the fiscal year ending June 30, 1920—Continued.*

	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1919.	Amount appropriated for the fiscal year ended June 30, 1918.
PRINTING AND BINDING—continued.			
1918 was \$650,000, all of which was expended, and work aggregating \$155,342.81 was placed in the hands of the printer but could not be completed because of insufficient appropriations. For the fiscal year 1919 the appropriation was reduced to \$600,000 without any opportunity being afforded the department to present its requirements for printing. At this particular time an increased appropriation is necessary in order to enable the department to make available for public use not only the results of its regular investigations but of the special activities incident to the war. Unless the increase of \$100,000 recommended be allowed, the work of the department will be greatly impeded and some of its activities will fall short of the results contemplated. The amount recommended is an increase of only \$50,000 over the appropriation for the fiscal year 1918.			
Total	\$38,935,000.00	<sup>a</sup> \$35,064,250.00	\$16,854,896.17

<sup>a</sup> Does not include \$11,031,863, appropriated in act of November 21 (Public No. 243), for Stimulating Agriculture.

Total appropriations for the Department of Agriculture, including permanent annual appropriations, deficiency acts, special acts, and printing and binding under sundry civil act:

For the fiscal year—

1910	\$17,115,410.35
1911	20,888,449.28
1912	22,402,301.11
1913	25,177,164.68
1914	24,449,824.37
1915	26,840,434.55
1916	29,019,703.98
1917	37,188,852.00
1918	72,359,546.60
1919	62,939,603.00



